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SEPTEMBER 8, 1958

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YOUNG HOOPERS

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A quarter-ton tortoise heaves up out of his water hole in the Galápagos Islands. Above him, in a scene which might have been witnessed by Charles Darwin when he landed there, perches a vermilion flycatcher (see pp. 56-76)

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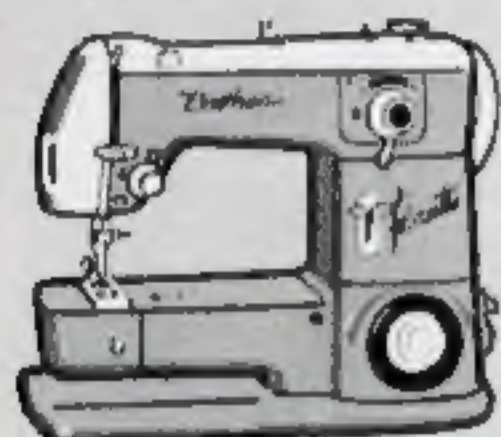
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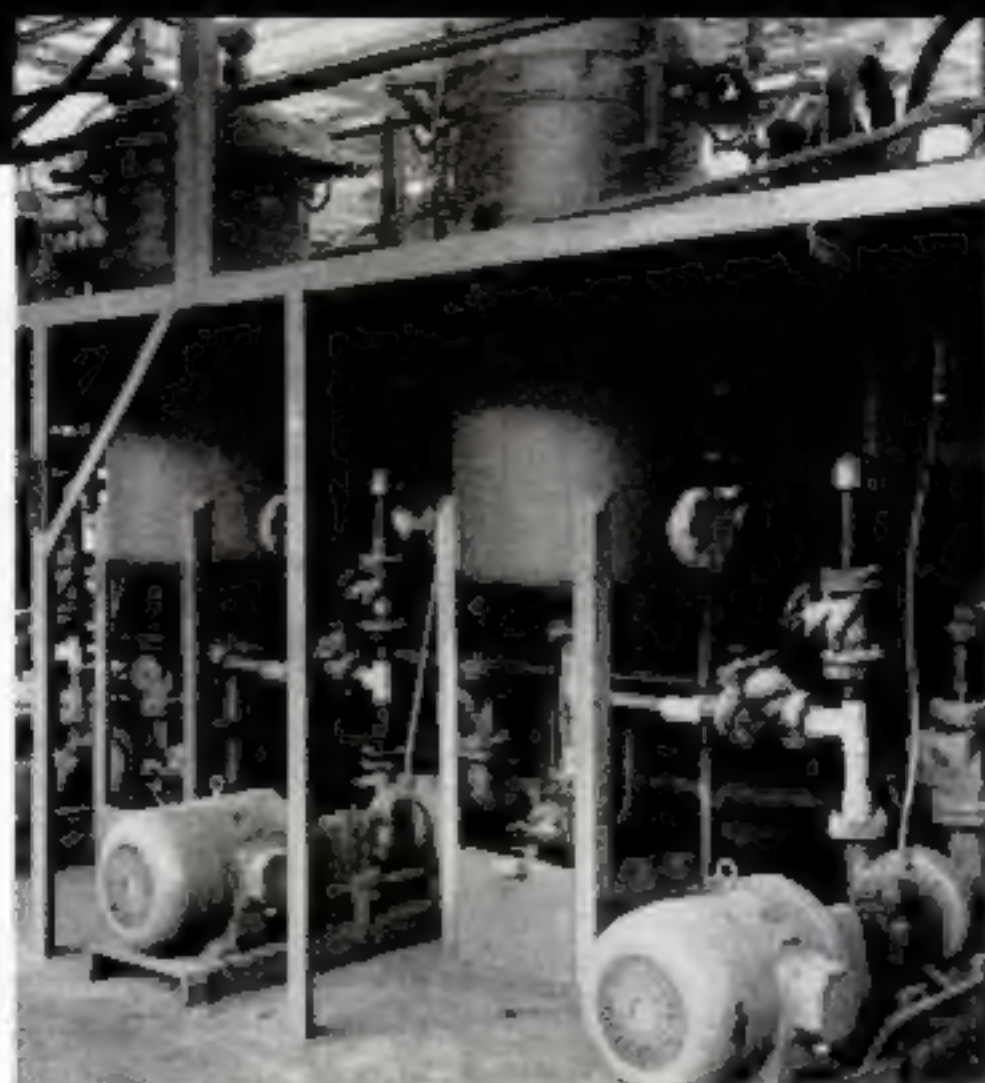
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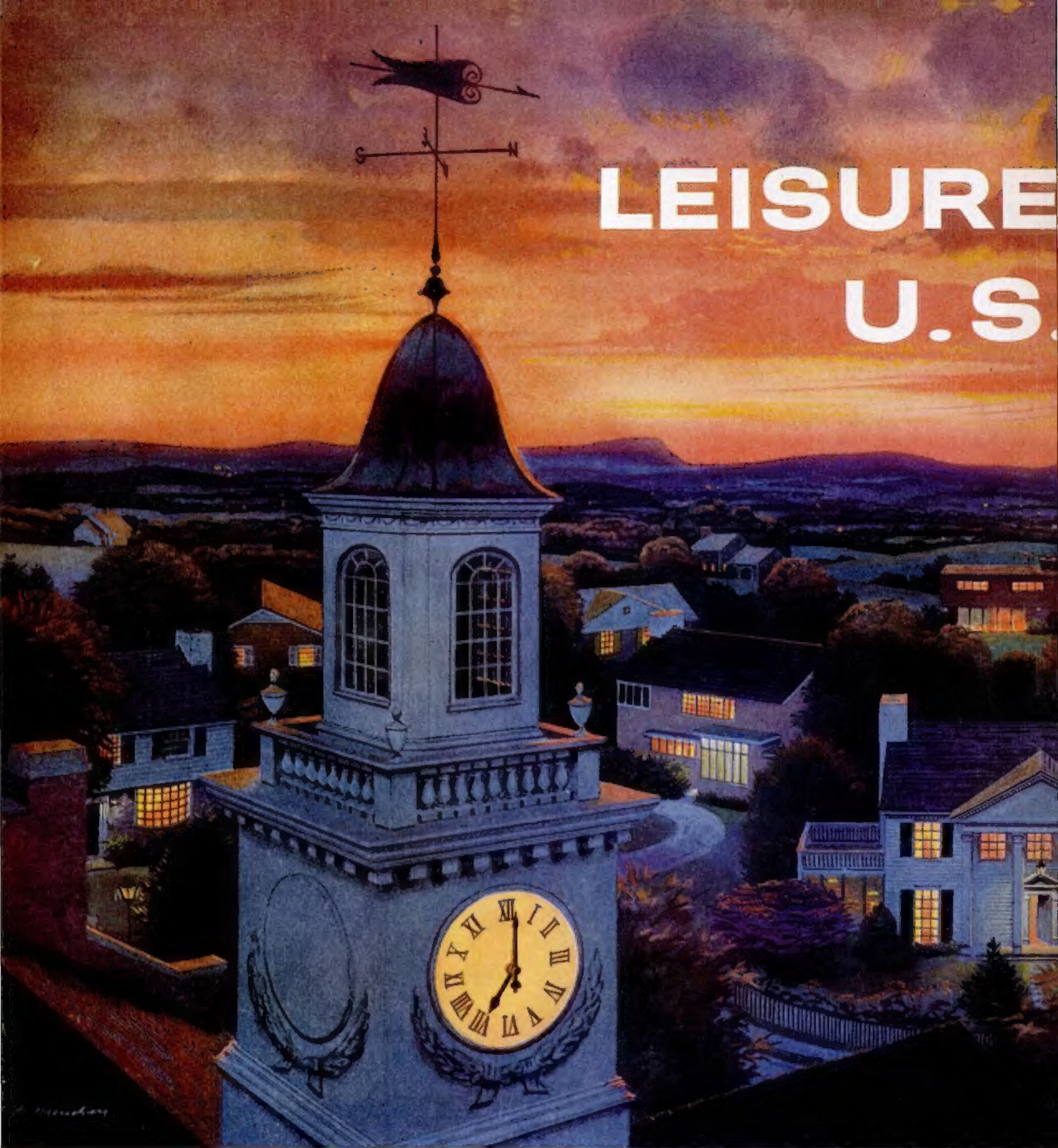


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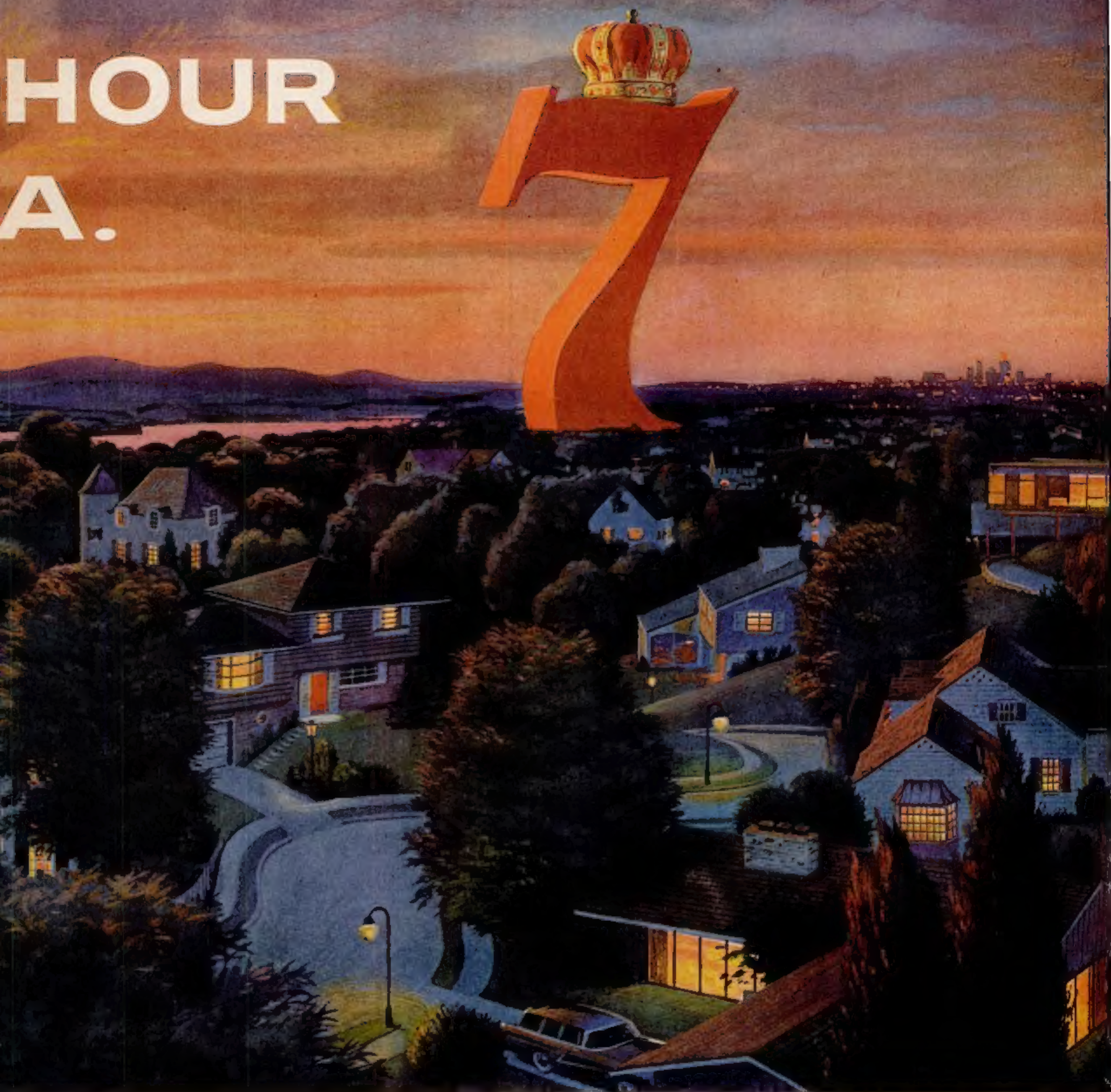
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Bat Man

For Jack Wylie the easy part was the stunt itself—rising on water skis (*left*) from the Chicago River with his big kite, sailing through the gap in the State Street drawbridge and flying 60 feet up (*above*) past the Wrigley Building



Goes up over Downtown Chicago

(left) and Tribune Tower (right). The hard part of the act for the "bat man" of Tommy Bartlett's Wisconsin Dells Water Ski Show was making arrangements beforehand. The boat pulling him had to be doing 40 mph faster

than usually allowed. The drawbridge could be opened only for legitimate purposes, not just ski-kiting. His plans had to be cleared with the port director, Coast Guard and Army Corps of Engineers. But he got permission for the boat

to exceed normal speeds and found a barge he could follow through the bridge. Then there was one final precaution. The "bat man" had to check the date of his last typhoid shot just in case he swallowed any of the dirty river water.

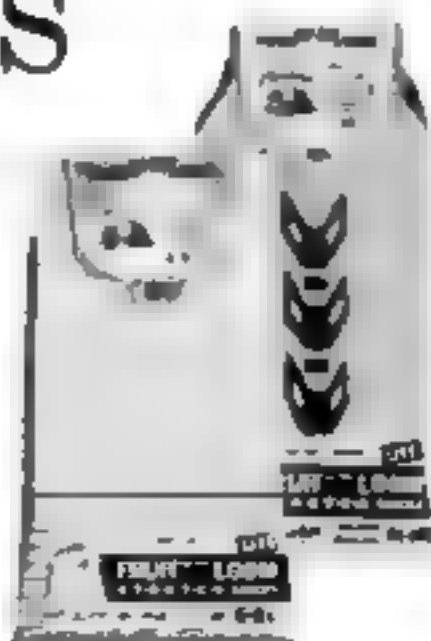


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LETTERS TO THE EDITORS

A TRAGEDY REVEALED

Sirs:

The story of Anne Frank ("A Tragedy Revealed: Heroine's Last Days," *LIFE*, Aug. 18) was one of the most moving articles I have ever read. Her delicate, sensitive face haunts me. The world forgets easily, but the soft voice of a child continues to prod our conscience.

GERRY SHERMAN

Hollywood, Calif.

Sirs:

We've recently returned from a European trip that included a few days in Amsterdam. The ghost of Anne Frank peered out at us from every rooftop. My husband and I felt impelled to go to 263 Prinsengracht and see it for ourselves. A movie crew was there filming *The Diary of Anne Frank*. We stood there watching a concentration camp truck driving up to the house. We were told that the extras included nine actual survivors of concentration camps. It was an experience we will never forget—almost like history being played back.

My husband climbed the rickety ladder to the quarters where the Frank family had lived. He came down shaken and white. The youth of Germany have placed two wreaths up there.

ST KL WEISS

Philadelphia, Pa.

Sirs:

When the British army liberated Bergen-Belsen in the spring of 1945, German soldiers performed the ugly task of burying the thousands of emaciated dead. As I stood watching the naked bodies rolling into one of the huge pits, my attention was drawn to a singularly beautiful face which stood out amidst all that ugliness. It was the face of a girl in her middle teens. Our public relations officer photographed the scene and got a clear picture of the beautiful face.

I did not obtain a copy of the photograph nor do I remember the name of the P.R.O. Nonetheless, the pictures in your story stirred my memory strangely. Could it have been Anne Frank?

WALLACE J. TOBEY

Guelph, Ont., Canada

MAJOR MISSING LINK

Sirs:

I sincerely wish to compliment the author of the article, "Chunk of Coal Yields a Major Missing Link" (*LIFE*, Aug. 18). Since a course in biology last year where we briefly studied human evolution, I have been very interested in reading about it. Thanks for printing an outstanding article.

EILEEN THOMSON

Spokane, Wash.

Sirs:

Scientists, bah! If they think they can convince God-fearing, God-loving Christian people that Adam and Eve were a couple of apes, they're crazy!

MARY FOGARTY

Denver, Colo.

Sirs:

How do you know the Proconsul is the common ancestor of apes and man?

GERALD B. LINDELL

Kenosha, Wis.

● Anthropologists believe that the common ancestor of apes and man was a monkeylike animal which also exhibited certain characteristics later fully developed in either apes or man: i.e., swinging in trees like apes and walking erect like man. Many scientists believe Proconsul most nearly meets these specifications, but some do not. *LIFE* should have said that Proconsul is probably the common ancestor of apes and man.—ED.

MISCELLANY

Sirs:

I was amused by the picture of a two-legged horse taken in Italy ("A Two-legged Quadruped," *LIFE*, Aug. 18). We have them here too. Enclosed is a picture of my daughter on a "horstrich" taken on a trip in the Black Hills.

EDWARD N. SCHULZE

Chicago, Ill.



ANOTHER TWO-LEGGED HORSE

MINUTEMEN

Sirs:

I found your article ("A Minuteman in Modern Dress," *LIFE*, Aug. 18) most informative. However, solid fuel is not a relatively new fuel. The Chinese used solid fuel at least as far back as 1232, consisting of saltpeter, charcoal and sulphur, still used in fireworks. The only new phase of solid fuel in rockets such as the Minuteman is that it uses a modern type of solid fuel, an oxidizer with a synthetic rubber base.

GEORGE FLEMING

Harrington Park, N.J.

CONTINUED

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8. Do you take pride in your personal appearance?	<input type="checkbox"/>	<input type="checkbox"/>
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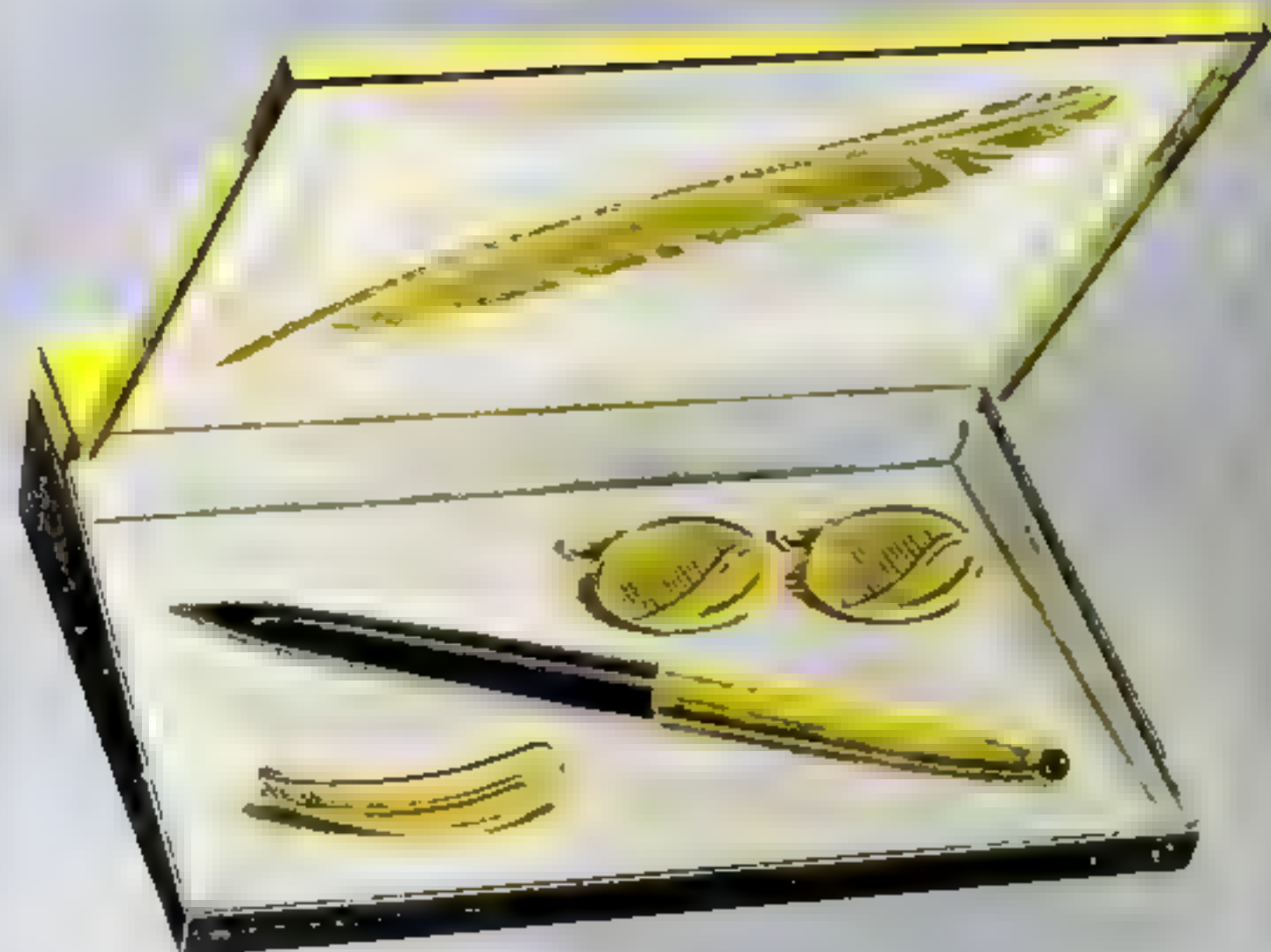
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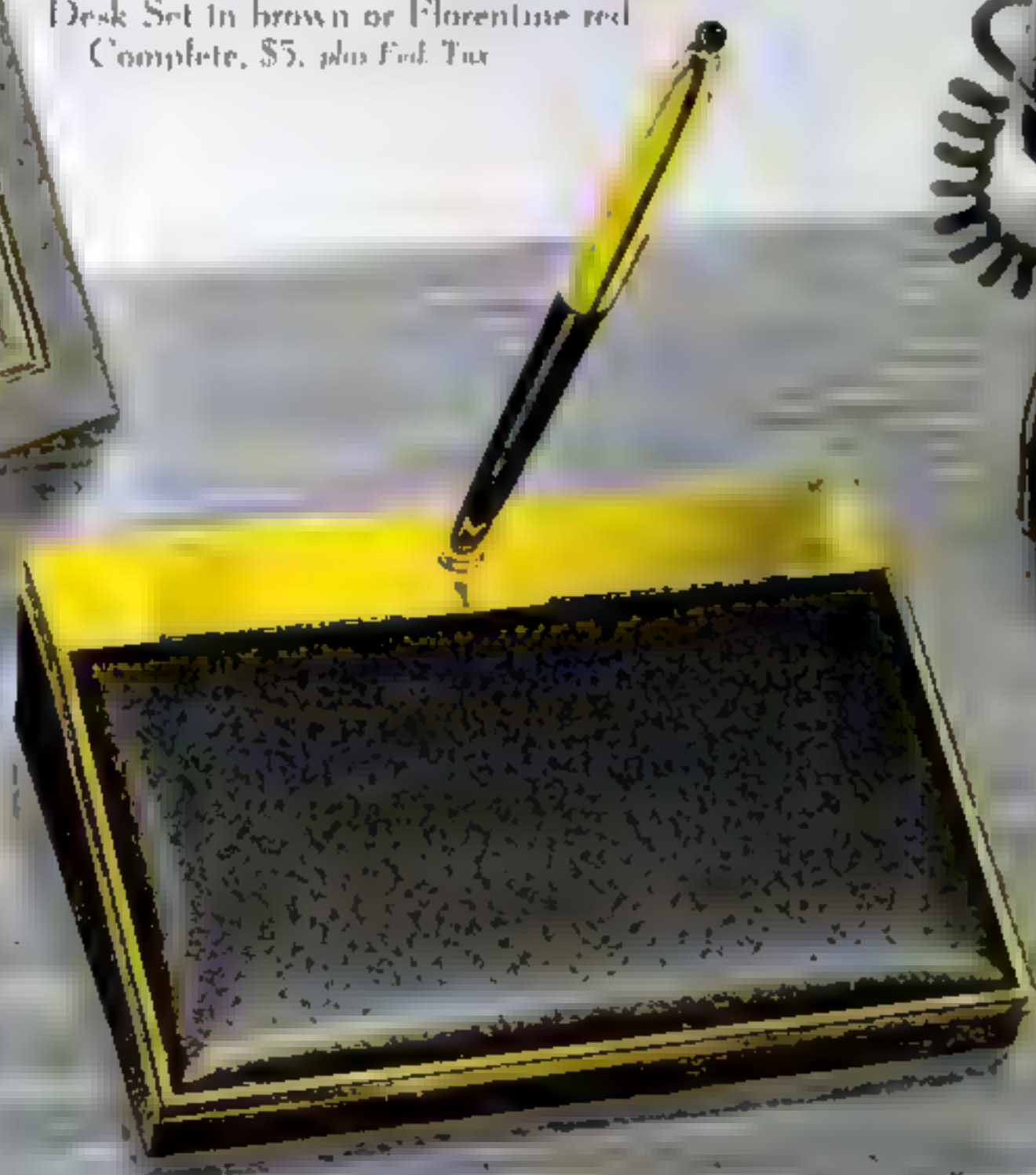
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LETTERS TO THE EDITORS CONTINUED

STRANGE DOINGS IN TEAMSTERS

Sirs:

It was with shocked disbelief that I read in your article ("Dark and Strange Doings in Teamsters," LIFE, Aug. 18) of the type of men who have been placed in commanding positions in our country's largest single union. But what is even more shocking and frightening is that these men, as known criminals and hoodlums, are allowed to continue unchecked in their ruthless domination of such a vital organization. What can each of us as citizens do to stop such a flagrant abuse of our country's democratic principles? Obviously, in this organization, the rights and interests of the majority have been lost.

DON OLSEN

Seattle, Wash.

Sirs:

Your article about Hoffa and the leadership and activities of the Teamsters' Union is courageous and timely.

L. B. DOLAN

Oklahoma City, Okla.

Sirs:

The real weakness of the Teamsters exists with their collective members, the "so what" individuals shrouded in false illusions. Such people, whether union members or bank executives, represent more of a danger to the freedom of this country than 20 times their number of diligent Communist agents.

FRANK B. CHRISTOPHER

Falls Church, Va.

EDITORIAL

Sirs:

Your editorial ("Give Us Yankee a Little Credit," LIFE, Aug. 18) should do little to improve the relationships between the U.S. and our Latin American neighbors. Your attempts to refute the charges against us have overtones of the same Norteamericano smugness that can only infuriate the Latinos.

Criticism of shaky one-crop economies in the Latin countries is akin to criticizing Iowa for being a corn state or Nevada for being a mineral state.

A visit to any of the Latin American countries will show a tremendous effort being made not only to diversify their economies but to become more self-sufficient in manufacture and industry. It is this attempt to industrialize that is causing much of the economic emergency.

COLIN E. CAMPBELL

Summit, N.J.

Sirs:

Like me, most of the Latin American residents in this country recognize that a substantial amount of credit is due the U.S. for the economic and political achievements of our countries. However, the credit for having only three remaining dictators in Latin America belongs not to the U.S. but to the people of Latin America.

LUIS ABCE

Evansville, Ind.

THE MARK OF ZORRO

Sirs:

You left out the most exciting "Zorro" of all: John Carroll ("The Mark of Zorro," LIFE, Aug. 18). His rich singing baritone used to thrill us

kids in the late '30s and we never missed a Saturday matinee for fear of missing our hero's next chapter.

MARIAN GLENN HOOKALO

Needham Heights, Mass.

● John Carroll played Zorro in Republic Pictures' 1937 serial, "Zorro Rides Again." Noah Beery Sr. was the villain. —ED.



JOHN CARROLL AND NOAH BEERY

'TOM SAWYER'

Sirs:

Wah't the musical *Tom Sawyer* mentioned in your article ("Feet First into Mark Twain," LIFE, Aug. 18) first produced by the Theater Guild for TV's *United States Steel Hour*? The production I am thinking of was by Frank Luther.

JOHN W. COOLIDGE

Fort Lee, N.J.

● Frank Luther wrote the words and music for the 1956 TV production of *Tom Sawyer*, developed it into the Kansas City version. —ED.

MAGIC OF COLOR IN MOTION

Sirs:

These strangely beautiful photographs by Ernst Haas ("Adventure in New Camera Realm," LIFE, Aug. 18) are by all odds the first genuine abstractions in the art field of photography. More power to the Picasso of the lens.

JANE NICODENUS GARVAN

Spring House, Pa.

A POLAR EPIC UNDER THE ICE

Sirs:

In your story on *Nautilus* ("A Polar Epic under the Ice," LIFE, Aug. 18) you say, "As the ice slid by overhead the sub made its way past the North Pole, later turned south. . ."

Where else?

JOHN R. ULICH

Portland, Ore.

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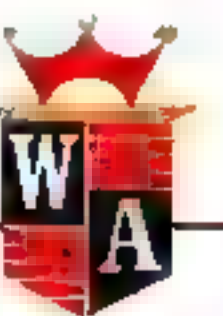


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AT MATSU ARTILLERY POST FACING MAINLAND CHIANG KAI-SHEK POSES FOR CHINESE PHOTOGRAPHER

RED CHINESE TOY WITH THE PEACE

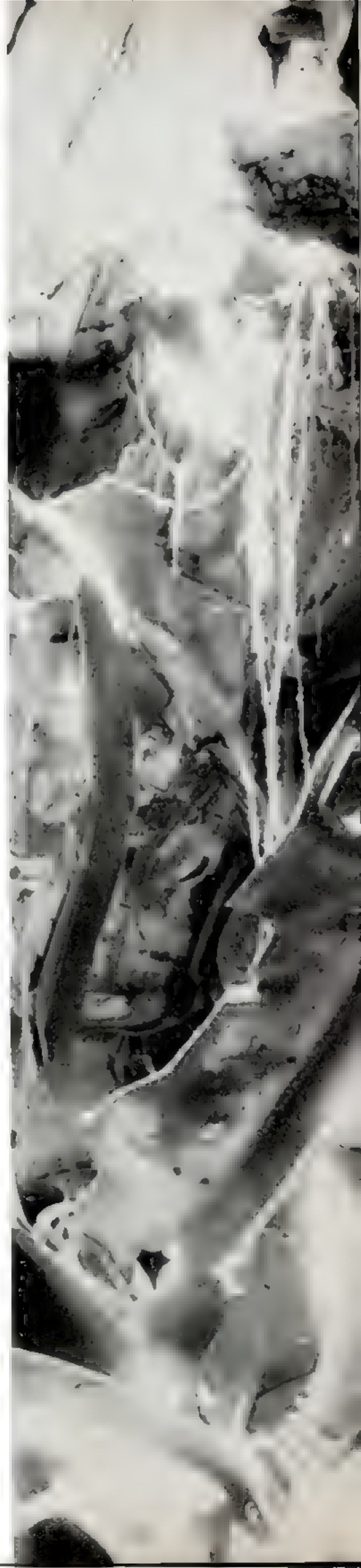
PHOTOGRAPHED FOR LIFE BY JOHN DOMINIS

The gashed hulk of a torpedoed LST (*right*) which was towed into a Nationalist China harbor in the Pescadores last week was a grim reminder that, in one part of the world at least, the cold war could heat up again. After three years of relative quiet, guns on the Communist China mainland thundered into action against the offshore islands held by Nationalist troops of Chiang Kai-shek. The Quemoy island complex, a bare five miles from the mainland, took some 150,000 artillery shells in seven days and counted more than 600 casualties. In sporadic naval fighting the Communists lost three PT boats and the Nationalists one LST with another badly damaged. Most ominous were the questions raised by this outburst of Communist activity. Had Peking, with a go-ahead from Moscow, decided to grab the offshore islands

at the risk of starting World War III? If so, would the U.S., committed to defend Chiang's Formosa-based government, defend the outlying positions or where would it draw the line?

The Peking radio taunted Quemoy's 90,000 defenders to surrender or be stormed. Simultaneously Moscow renewed its campaign for Red Chinese recognition in the U.N. Chiang himself visited Quemoy and, 150 miles to the north, the island of Matsu. President Eisenhower warned the U.S. would stand by its commitment to the Nationalists. Two extra carriers were sent to beef up the Seventh Fleet off Formosa, and U.S.-manned F-100 Super Sabres began working out with Chiang's air force. With the world wondering if the Communists meant it this time, Chiang's men dug in deeper, ready, as their commander said, "to fight like hell."

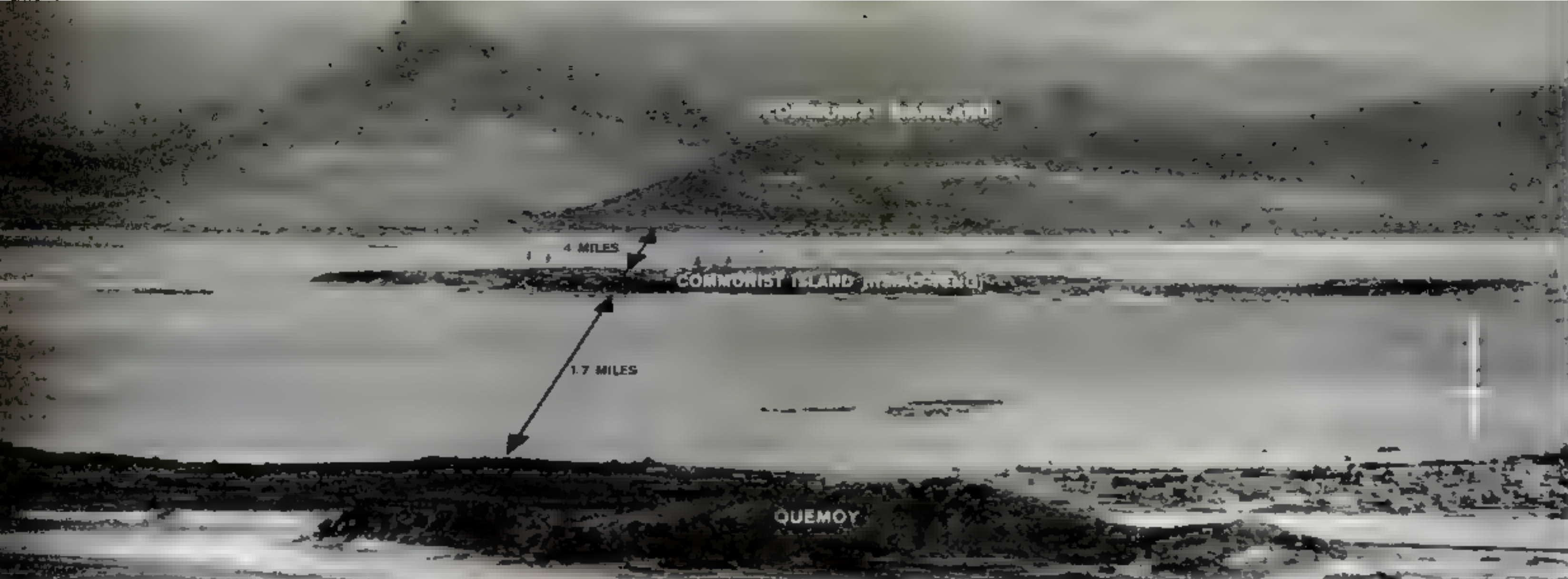
TORPEDOED LST, with a hole in its stern and its interior a shambles, is cleaned up by Nationalist sailors. Ship was hit on its way from Quemoy to Formosa.



LIFE

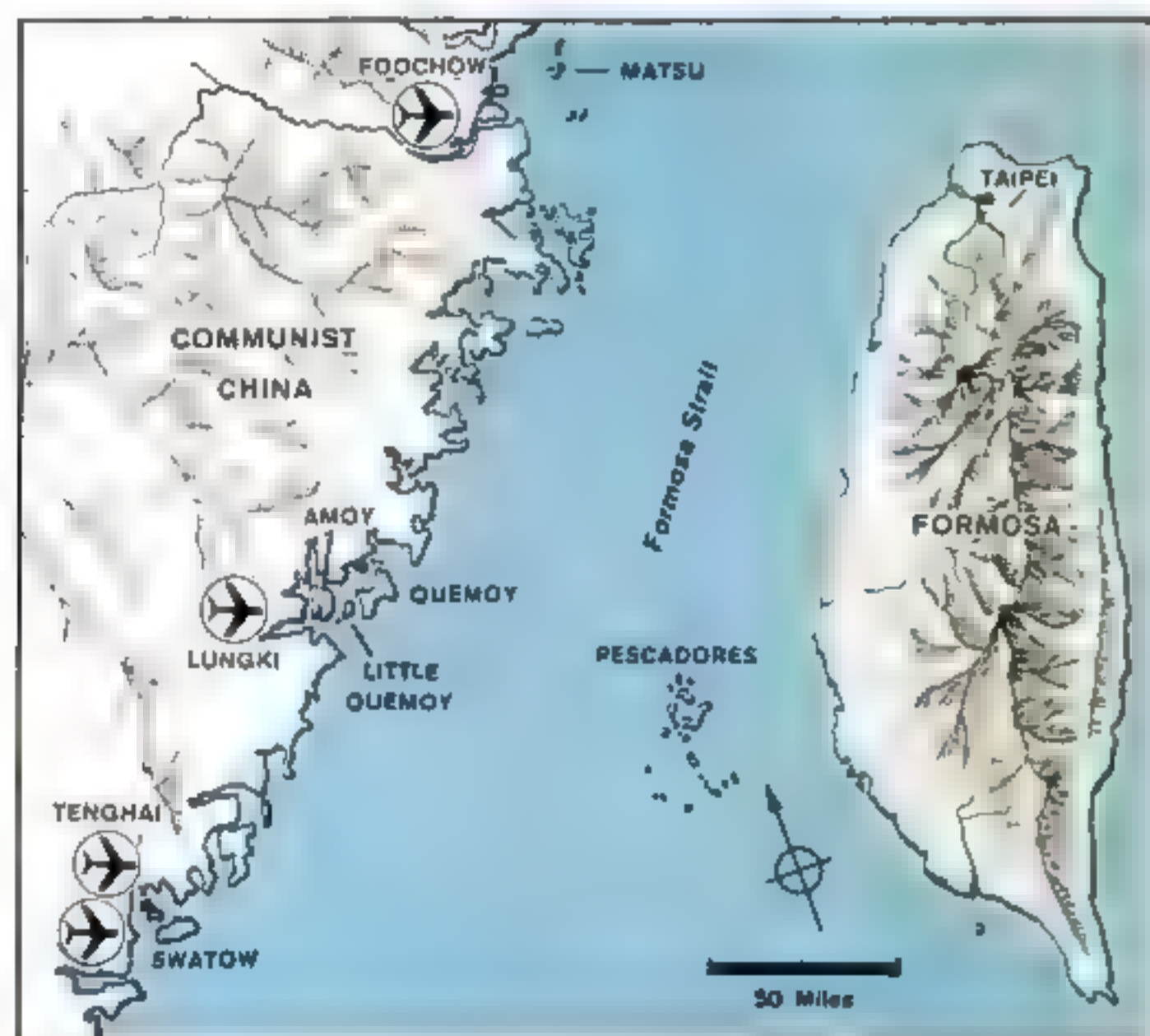
Vol. 45, No. 10 Sept. 8, 1958





PROXIMITY OF MAINLAND to the Chinese Nationalist island of Quemoy is illustrated by this picture. The northernmost tip of Quemoy (foreground) is

within loudspeaker call of the Communist-occupied island of Hsiao-teng (middle distance). Heavy Red batteries are located in the hills of China just beyond.



TROUBLE AREA includes Nationalist Formosa and Pescadores. Nationalist offshore islands are Matsu group, Quemoy complex including the Tans (off tip of Little Quemoy). Symbols mark major airstrips which Reds have been getting ready for jets. Amoy is Communist island where Reds have guns to shell Quemoy group.

DANGER—NEAR AND CLEAR

Even while shells still thundered back and forth over the narrow stretch of water (above) which precariously separates Red China and the island of Quemoy, Radio Peking was bleating to the world about Chiang's irresponsible "aggressions." Historically these "aggressions" consist mainly in the Nationalists' stubborn refusal to let go of a handful of rocky islands (map, left) practically within shouting distance of the mainland, strategically vulnerable but symbolically valuable because they are Chiang's last hold on the soil of prewar China.

Once before the Chinese Communists tried a direct assault across this narrow body of water. That was back in 1949, a few weeks after Chiang's expulsion from the mainland, but the attack was bloodily beaten back from Quemoy. In the spring of 1955 they talked loudly about another attack, but the U.S. Seventh Fleet stood guard and nothing happened. Since then the Reds have periodically threatened a new attempt. In the past few months they have completed coastal airstrips to handle jet fighters and have begun massing fuel and moving in artillery.

So far the Communists' attack could contain more bluff than substance. Even with jet planes and their new mainland bases, many military observers doubted their ability to support an all-out amphibious assault on the Quemoy stronghold—especially if U.S. air and naval units opposed them. That decision would be up to the President. But it was brutally clear, especially to the wounded Nationalist soldiers shown below and at right, that the bluff could get bloodier enough at any time.



BATTLE VICTIMS, mainly Chinese Nationalist soldiers, are helped ashore walking, on stretcher (center, getting drink of water) and piggy-back after trip from



Quemoy to Makung in the Pescadores Islands. The Chinese Red artillery fired antipersonnel shells with contact fuses, cut up many men with flying shrapnel.



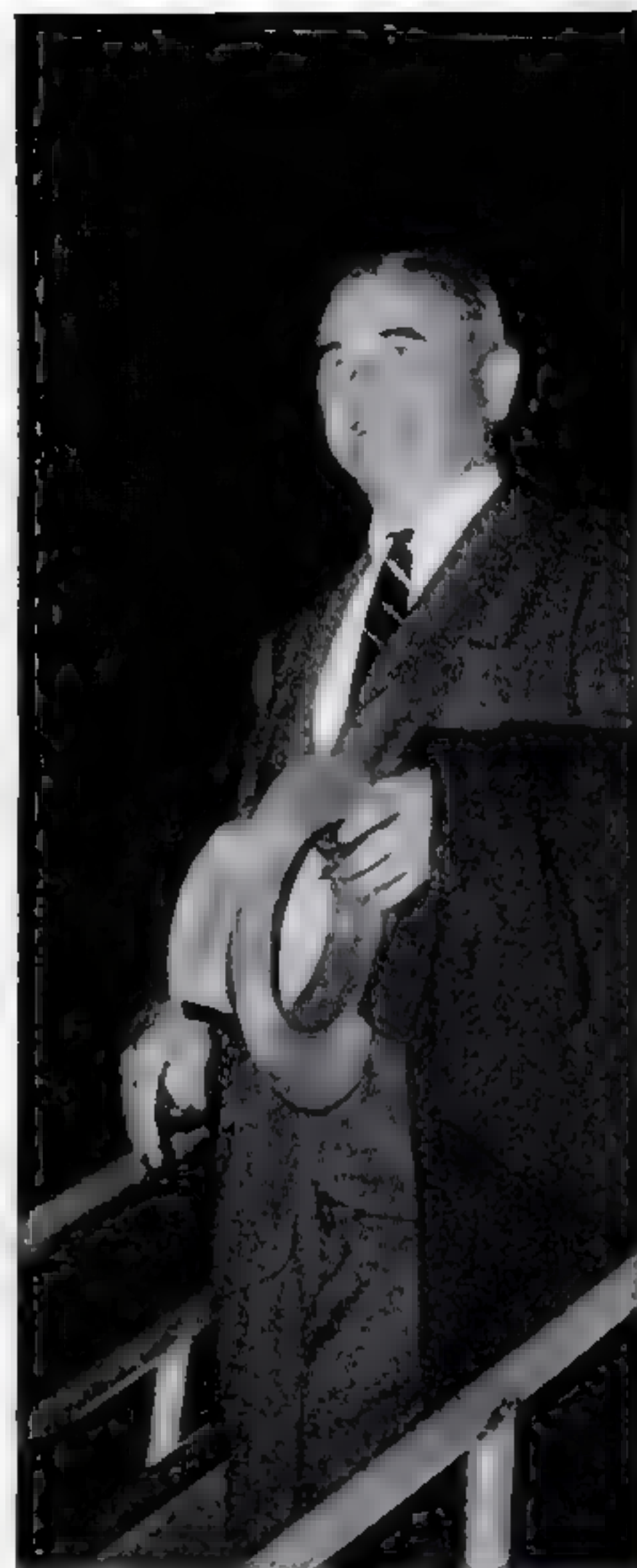




MR. JUSTICE BLACK, leaving his Alexandria, Va. home, was only eight miles from Supreme Court.



MR. JUSTICE WHITTAKER had flown in from an annual meeting of the American Bar Association in Los Angeles.



CHIEF JUSTICE WARREN, with Mr. Justice Brennan (left), came by plane from the

SUPREME COURT JUSTICES HURRY TO A HISTORIC SPECIAL SUMMER SESSION

The U.S. Supreme Court was in summer recess and its nine members were scattered all the way from the state of Washington to England when suddenly the summons came. Breaking off their holiday, the justices hurried back to Washington at the call of Chief Justice Earl Warren for an extraordinary session, a special term of the Supreme Court. They were convening to turn their attention once again to a problem that has been paramount in this country ever since the Court in May, 1954 handed down its historic ruling on integration. Six members of the present Court (all but Justices Brennan, Harlan, Whittaker) had participated

in the unanimous decision, which held that segregated public education was unconstitutional because it deprived Negroes of equal rights. And in the intervening years they had seen a virtual rebellion against that decision in the southern states.

The matter that was now before the special term concerned the agonizing effort to integrate Central High School of Little Rock, Ark. The Court's specific business was technical, concerning a stay of a circuit court order that overruled a district court decision permitting Little Rock to suspend integration for two and a half years. But the great question was

whether the decision of the high Court interpreting the law could be pushed aside by force or the threat of force.

Long before the justices filed into the august chamber a crowd had gathered outside, many of them Negroes. By noon, when the Court crier rapped his gavel and shouted the traditional "Oyez, Oyez," the courtroom was jammed. Three times the 300 people present had been turned away. Then, with lawyer against lawyer, the school board of Little Rock against the N.A.A.C.P. and the U.S. government, which had been invited by the Court to participate, the momentous arguments began.



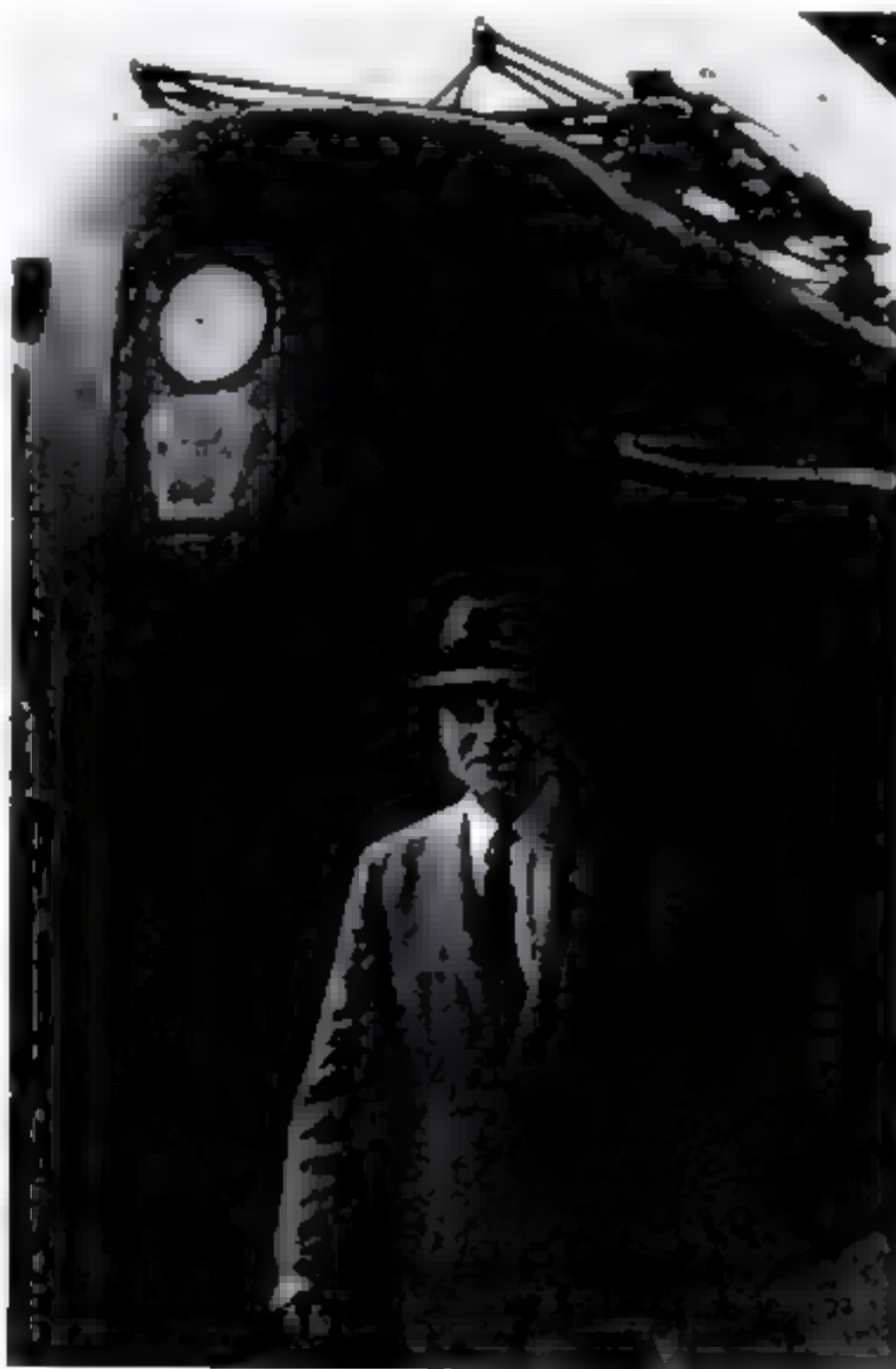
American Bar meeting. The Court was summoned by Chief Justice from Los Angeles.



MR. JUSTICE FRANKFURTER, who lives in Washington, was closest member of Court.



MR. JUSTICE CLARK also had been in Los Angeles, where he presided over a luncheon of the American Bar.



MR. JUSTICE HARLAN came by train from Connecticut, where he was spending his vacation at his summer home.



MR. JUSTICE DOUGLAS had been in Washington State on a three-day walking trip in an isolated area.

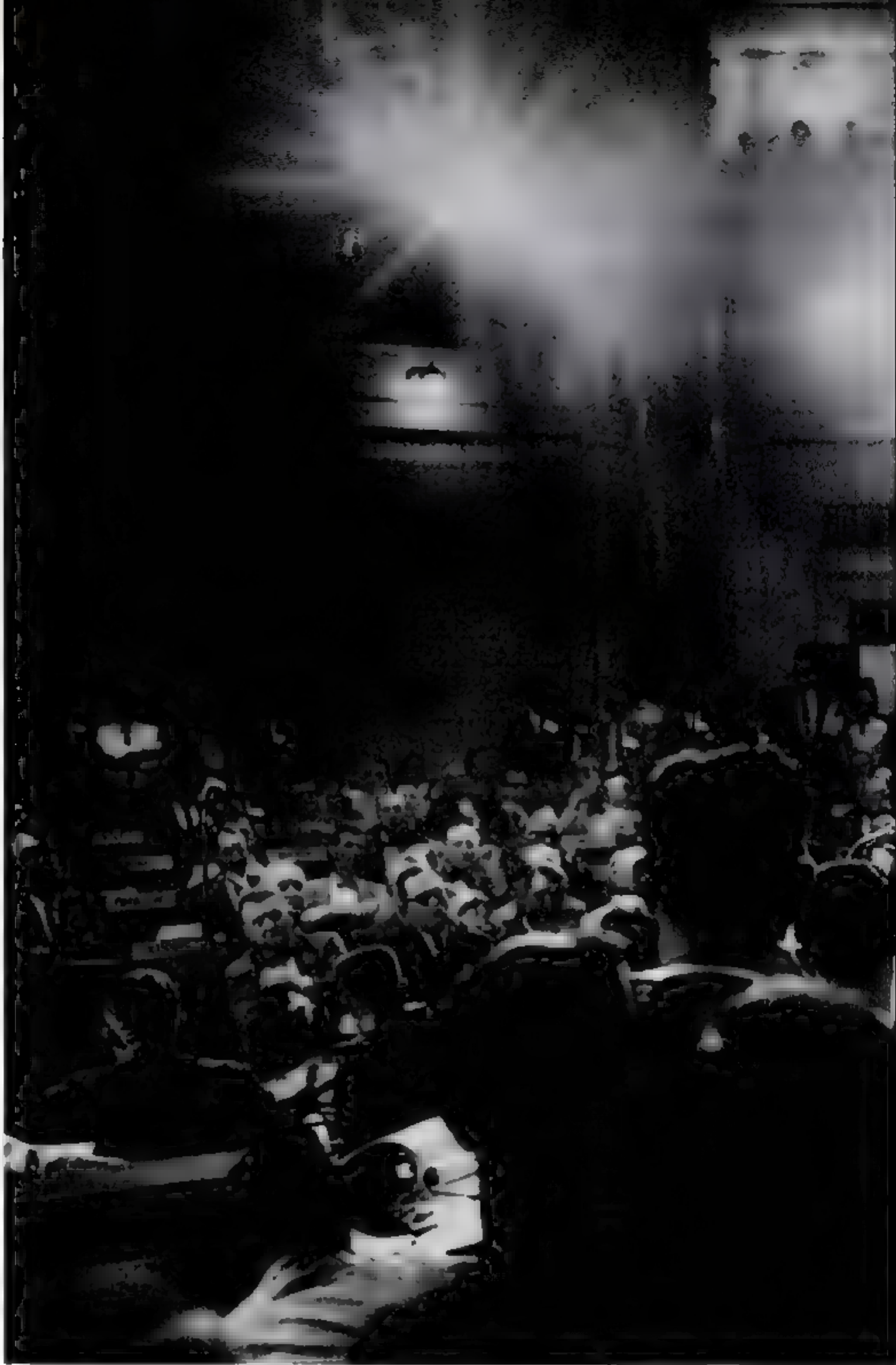


MR. JUSTICE BURTON, in Supreme Court plaza, flew in from London where he was on European trip.



PRESIDENT ON SPOT ponders the integration question at press conference. President said that he might have said integration should go "slower"

ARKANSAS LEGISLATURE in special session is addressed by Governor Faubus who asked passage of six bills giving him power to back integration.



LITTLE ROCK LEADERS at Supreme Court after hearing are. foreground, left to right, School Superintendent Virgil Blossom, school board members

Harold Engstrom, Dr. Dale Alford and Wayne Upton, president. At far right is Lawyer Richard Butler, who presented argument for the school board.

THE CRUCIAL ISSUE:

The government made a significant contribution to the task of presenting the case against delay in integration. But President Eisenhower himself gave comfort to segregationists by admitting, in a press conference, that he might have said privately he wished integration would go "slower." Nevertheless the President supported—and had reviewed beforehand—the argument presented to the Court by his solicitor general, J. Lee Rankin, who was firm against any unwarranted delay (see Editorial, p. 32).

The case for Little Rock was given by soft-spoken Richard Butler. "From bitter experience," he argued, recalling the troops that had to guard Central High, members of the school board "have discovered that they could not operate a public school system under the existing climate in Little Rock." The two-and-a-



NULLIFICATION AGAINST LAW OF THE LAND

half-year delay was needed so that the people could be properly prepared to accept integration peaceably.

The Court questioned Butler sharply. When he argued that the people of Arkansas had been instructed by Governor Faubus that the decision of the Supreme Court was not the law of the land, Chief Justice Warren replied, "I have never heard such an argument made in a court of justice before. I never heard a lawyer say that the statement of a governor as to what was legal or illegal should control the action of any court."

Solicitor General Rankin, for the Administration, argued the question broadly in urging the Court to order prompt integration: "We are now at the crossroads in this important question," he said. "No court of law can

recognize that you can ever bow to force or violence. There must be some kind of a start. There isn't a place in the country that cannot make some kind of a start, even if it is the smallest kind, toward solving this problem." Having heard the arguments, the Court gave both sides time to file further briefs, indicated it will rule by Sept. 15.

In Arkansas, meanwhile, Governor Faubus was using all his skill and power to circumvent any unfavorable decision of the Court. He called a special session of the legislature, which rammed through six bills giving him, among other powers, the authority to close the schools if they are integrated by force.

In other southern states the resistance to integration had stiffened (*next pages*) as the outcome of the Little Rock case was awaited.



SYMBOL OF THE LAW, U.S. Solicitor General J. Lee Rankin, wearing morning coat, is shown on the steps of the Supreme Court before his argument.

THROUGH THE SOUTH, SOME PROGRESS BUT RESISTANCE GOES ON



VICTORS IN NORFOLK, Virginia school children shown in a federal courtroom were accepted by

the school board last week. But under Virginia law the state can close the schools and cut off all funds.

In the first three years after the 1954 Supreme Court decision, 720 districts in the South integrated schools. Last year only 57 did. This year the number is even smaller, probably no more than 20. Of the 777 school districts which have begun to integrate (one fourth of the districts where both whites and Negroes live) all but 15 are in border states. Elsewhere more effort has been spent on finding methods of obstructing the decision than carrying it out.

Texas has a law requiring that local voters approve each proposed attempt at integration and this has all but halted the change in Texas. Virginia passed a law in 1956 which would close any public school that had integrated. Last week the first practical test of this law was imminent when the school board in Norfolk, obeying a federal court order, admitted 17 Negroes to white schools. In places where progress was being made, opposition increased. In North Carolina voluntary integration, which began bravely, has slowed down. Now each new case may have to be argued out in the courts.

In some places integration continues slowly but steadily. In Nashville, Tenn., where an old troublemaker showed up (*below*), integration is being applied to one grade a year. Last year the first grade integrated. This year, as it becomes the second grade, a new integrated first grade is starting peacefully.

Negroes in the South face older problems than integration. In Memphis last week six Negroes who wandered into a public zoo were chased out because it was not their designated day to see the animals. In Oklahoma City, which has peacefully integrated its schools, Negroes made a planned test of another rule, segregation in restaurants. They spent a whole week waiting quietly to be served in a department store luncheonette (*opposite page*) which refused even to notice their presence. But in two other places they won their point after several days of sitting, when two soda fountains gave in and served their persistent customers.



HOPEFULS IN ARLINGTON, Virginia Negro children who have applied to white schools, gather at

dinner with white children in Unitarian church. Federal court last year ordered Arlington integration.



RULE BREAKERS IN MEMPHIS, Negroes (*left*) have to leave the city zoo. They tried to enter on Wednesday. Thursday is the day set aside for Negroes.



RABBLE ROUSER IN NASHVILLE, segregationist John Kasper (in front of window) watches Negro meeting on integration. A bomb scare interrupted meeting.



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LUCK IN PLANE CRASH

Crashing at take-off in Minneapolis, an airliner mowed down a corn field, smashed a garage (lower left). All aboard escaped through exits and a hole in fuselage before flames closed in.

A LOOK AT



PARIS COOP FOR ALGERIAN SUSPECTS ↓

At police school in Paris, French cooped up some of the 3,000 suspect Algerians seized in mass roundups. To dramatize their independence movement, Algerian nationalists in acts

of violence all over France blew up oil depots, attacked munitions factories and shot French soldiers. In five days they destroyed millions of gallons of fuel and killed five Frenchmen.



THE WORLD'S WEEK



CANADIAN CONVICTS AFTER A VIOLENT CAPER

At Collins Bay Penitentiary near Kingston, Ontario, armed guards force convicts to sit down in prison compound after a riot that started like a campus caper. Disgruntled when a

baseball game was called off, prisoners started booing, wound up burning 10 buildings. When they stormed the kitchen a guard shot a prisoner in the knee and the demonstration collapsed.



CHANGES AT THE TOP IN GENERAL MOTORS

In New York, General Motors announced a change in leaders (see Editorial). President Harlow Curtice, 65 (left), and Chairman Albert Bradley, 67 (second from right), are retiring.

Replacing them are Frederic Donner (second from left), as chairman and chief executive, and John Gordon (right), president. Donner will set policy, Gordon will boss production.



LOVE CONQUERS BOSSES

The publicity given managers who talked Actress Andrea Martin and TV hero Ty Hardin out of marriage (LIFE, Sept. 1) induced them to relent. Here they get license in Los Angeles.



BIG MAINE DEBATE

In Poland Spring, Maine, Governor Ed Muskie (left) and Senator Frederick Payne, in Senate race, debated foreign policy. Payne proved a better debater but Muskie is favored to win.



VICTOR AND VANQUISHED. Carmine De Sapio and Averell Harriman, meet on the convention platform as De Sapio's candidate, Frank Hogan, is about to

be nominated. By this time Governor Harriman, who knew he had lost the big fight to De Sapio, had also lost the big smile of his campaign poster (*upper left*).

A SUCCESSFUL POLITICAL BOSS AT WORK



BOOSTING HIS MAN, De Sapio (right) talks up Hogan to Monroe Goldwater, strong adviser to Wagner.



GOVERNOR'S CALL reaches De Sapio at the convention hall. Harriman asked him to come to hotel.



MEETING OPPOSITION, he talks to Murray men Leo C. Quinn (left), State Chairman Prendergast.



UNMOVED MAYOR, Wagner (left) follows Goldwater from the Harriman suite after refusing to run.



SENSING VICTORY, De Sapio breaks into a smile as he leaves the latter argument in governor's suite.



READY FOR VOTE back at convention, De Sapio snaps remark to Bronx party chief, Charles Buckley.

DE SAPIO GIVES AVE A BEATING

Tammany chief humiliates Harriman over a candidate for Senate

With a resounding unanimous vote, New York Democrats picked Averell Harriman to run for governor again in what looked like a Democratic year. But the acclamation had a sour taste for Harriman as he sat in the state convention at Buffalo (opposite) listening to the man who had given him a bad political beating. In a raw fight for control of the state party, the rich and ambitious governor had been licked by the man who built him up politically, Carmine De Sapio, tough and ambitious boss of Tammany Hall.

For some time Harriman, who still held hopes of being Democratic presidential candidate in 1960, had been trying to curb De Sapio. The showdown came at the convention over choosing a candidate for U.S. Senate. Harriman wanted Thomas K. Finletter, ex-Secretary of the Air Force. But, he said amiably, he wasn't going to force his will on anyone. He also liked Thomas E. Murray, former AEC commissioner. De Sapio was for Frank Hogan, New York City's highly respected district attorney. He made it plain he was ready to force his will on anybody.

At the convention Harriman had to put all his prestige into the fight. He summoned De Sapio to his hotel room (above) and there, for 6½ bitter hours, an old-fashioned, behind-

closed-doors struggle took place. Both men were willing to accept New York's Mayor Robert Wagner as a compromise. Wagner would not be drafted and he joined Harriman in attacking De Sapio. There were rough words and a wild flurry of political threats. But De Sapio had New York City's delegates in his pocket—all he needed—and had, meanwhile, managed a deal to get insurance votes.

De Sapio left the hotel room victorious. Harriman was so enraged that he refused at first to go back to the convention hall. But he finally went to watch De Sapio steam-roller Hogan in. Then, again against Harriman's wishes, De Sapio put over as attorney general a Buffalo political boss named Crotty who, in a deal, had delivered Buffalo's votes for Hogan to De Sapio.

There was no mistaking the size of De Sapio's triumph. But it promised trouble for the Democrats in November. The Republicans had nominated a vigorous ticket headed by Nelson Rockefeller for governor and Congressman Kenneth B. Keating for the Senate. Now they could hit at the fact that Tammany's boss was really running the Democrats. No one in the badly shaken Democratic party could deny this with conviction—least of all Averell Harriman.

HAPPY HOGAN on the convention platform grins as result of balloting is announced. He received 772 of delegates' votes to 310 for Murray and Finletter.



A NEW BOSS VS. THE OLD HABIT

One of the world's toughest jobs now belongs to a prominent New York-Detroit commuter named Frederic G. Donner, who this week becomes boss of General Motors, the biggest manufacturing company in history. As GM's chief executive he is the symbol of the large U.S. corporation, which is about the most amazing economic animal ever known to man, and at the same time the most successful.

In one sense, the big corporation is the quintessence of old-fashioned, rugged private enterprises. Its fondest wish is still to elbow ahead of its competitors in a big, no-holds-barred drive to get at the mostest money with the bestest product. It heartily distrusts interference from government or anyone else. Yet at the same time it fully recognizes its role as the exponent of modern capitalism, American-style, and its responsibilities as a public servant. Its record of employee pensions, welfare benefits and other organized security measures, if read in any other context, would sound like a massive, voluntary kind of socialism. So the GM executives are not only private businessmen. They recognize that their corporation's very bigness gives them a big responsibility to keep the whole U.S. economy going, even while they are busy fighting the competition inside it. General Motors decisions on production rises and cutbacks can affect the economy overnight, and they have. Its taxes and the wages paid its half million employees are a major factor in U.S. economic health, to say nothing of the security given its 725,000 stockholders.

No one knows better than GM's officers that the large U.S. corporation has thus become a unique combination of private enterprise and public trust. On the face of it, these two aspects might be expected to work against each other, but actually they produce the kind of healthy tension that befuddles both Socialists and cartel-makers when they try to describe U.S. industry.

In the last 10 years General Motors chief executives have emphasized the production side. Under Charles E. Wilson and Harlow H. Curtice, GM was brought to an unprecedented prosperity as an alert, scrappy organization which appropriated more than half the total car market. In picking Donner, GM's directors have gone to a financial expert, neither engineer nor master style salesman but a man with the "whole picture" of the

company, i.e., he can be counted on to watch GM's progress carefully in relation to the complex U.S. economy.

Detroit has borne its share of the blame for the general recession. As the recession conditions level off, Donner and his executives are already planning ahead, not so much to make good their losses as to meet a bigger long-term challenge, the expected boom in the mid-'60s, which "Red" Curtice, in a pre-retirement speech, predicted will see a demand of eight million new passenger cars a year.

In plotting the boom, Donner and his operational No. 2 man, President John F. Gordon, have two problems ahead of them. The first is selling. Many critics of Detroit now believe that the big makers oversold their cars, rushing ahead too fast on the steady upheaval of bigger, better, lower, chromier and more expensive. After the boom year of 1955, they started running into massive consumer restraint. People, the auto men suspect, now want more and for less money, and Detroit will shortly be putting more stress on innovations such as the compact car. Donner's dilemma here: how far to go in this direction, and how soon?

The second problem, and a more immediate one, is what to do with big labor. After a year full of lay-offs and stalled inventories, Walter Reuther and the U.A.W. are knocking at the door as usual. For too many years GM, among others, answered the habitual knock by granting steady big increases, then passing the difference on to the consumers.

What makes Reuther's demands so punishing is that most of the unions at GM's 26,000 suppliers take their cue from the U.A.W. If Reuther gets an increase, the others do and, since labor is the biggest cost factor in industry today, the prices of component parts pyramid. The best industry guess at the ultimate consumer cost of an extra 48¢-an-hour package for the U.A.W.: an additional \$150 a car.

Already the carmakers are being subjected to softening-up "wildcat" strikes and talk of "showdown" is seriously in the air. If Donner holds GM firm against union demands, and persuades the other companies to do likewise, he will have struck a badly needed blow against the steadily rising U.S. wage and price spiral. And he will be off to a flying start on building the next boom.

SCHOOL 'CONFUSION' VS. THE LAW

Let's face it, the once hopeful picture of school integration has become an ugly mess. In seven southern states not a single public school has been integrated and political leaders there have come as close as they can to open defiance of the federal government's authority without actually aiming at Fort Sumter. Governor Faubus, in the course of turning out misleading statements about "a rule of law," has denied that a state need respect a federal court order.

Immediately after the 1954 Supreme Court decision many southern schools prepared to integrate peacefully and obediently. But the success of political extremists has slowed this movement to a drag. With increasingly few exceptions, southern moderates—or to be more accurate, law-abiding U.S. citizens—are either extinct or in hiding. "You're either a nigger lover or a loyal Southerner," said a Little Rock newsman. "There's no in-between any more."

Against this depressing background the contending parties in the Little Rock dispute have come up to the Supreme Court. This time the U.S. Department of Justice itself argued against postponement of integration, reaffirming the Attorney General's steadily firm line. "The American people," said Solicitor General Rankin, "are entitled to a definite statement from the

Supreme Court as to whether force and violence will prevail."

In arguing for time the Little Rock school board's attorney said that the people of Arkansas are confused by conflicting laws and court rulings. Integration laws need more testing so that the "people who want to obey the final word" will know what the law really is.

Confusion there has been, most of it begun and abetted by the legal half-truths of Faubus and his like. The storm of appeals and counterappeals, and the differing ways of federal judges, have admittedly heightened it. A most confusing element was President Eisenhower's blooper in his press conference about his personal feelings for "slower" integration. Although it runs counter to his Administration's public policy, the statement has been hopped on with joy by every segregationist troublemaker in the South.

The political segregationists will continue to thrive on postponements and varying interpretations. Many honest people may be misled by them. But we may expect to find no equivocation or confusion when the Supreme Court shortly gives its final decision. If the U.S. government really enforces the law, as interpreted by the Court, the people of Little Rock will not need all that time to understand it.

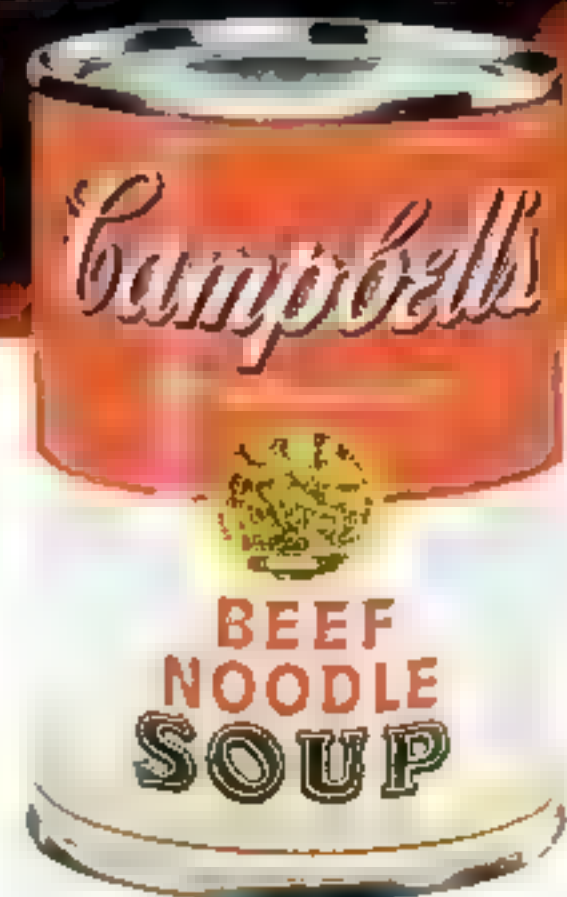


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CAMPBELL'S BEEF NOODLE SOUP...TASTE IT! Dip up a spoonful of those melt-in-your-mouth noodles, that tender beef, that warming, delicious broth! M'm! Good! Good because it's made the Campbell way, with enriched golden egg noodles, fine lean beef, artful seasoning. Enjoy a bowlful of Campbell's Beef Noodle Soup. It's ready in 4 minutes...costs less than 7¢ a serving. And it makes a pleasure of the healthy, happy habit...once a day...every day—Soup!

Have you had your soup today?



M'm! Good!
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NO BLADES TO TANGLE CLOTHES—3-ring agitator pumps up
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NO RUBBING AGAINST METAL—waterpower pumps detergent
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Here's the "heart" of the
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Automatically distributes
detergent, bleach, fabric
and water softener, even
dye, safely underwater
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dispensers inside agitator.

Automatically
removes lint! No
traps to empty! Lint,
dirt, soap scum are
pumped away.

No troublesome
tangling! Circulator
pumping keeps
clothes separated.

Energy ring
pumps water and
detergent through
every fabric,
every fiber.

Simple automatic control panel for all your wash-
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lint formed and best lint removal; and for best auto-
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on identical tests, under controlled laboratory con-
ditions, of 6 leading automatic washers including 3
with special Wash 'n Wear cycle. Reports No. 40996
and 40996-A, dated May 6 and June 11, 1958.

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IN FILENE'S DEPARTMENT STORE IN BOSTON, MAJORETTE SUE KILEY LEADS PROSPECTIVE YOUNG CUSTOMERS IN A HOOP LESSON. THIS DAY STORE SOLD 2,000

WHOLE COUNTRY HOOPS IT UP IN A NEW CRAZE

Big business that will sell 15 million plastic rings unlimbers hips, gives heaps of fun to the uninhibited

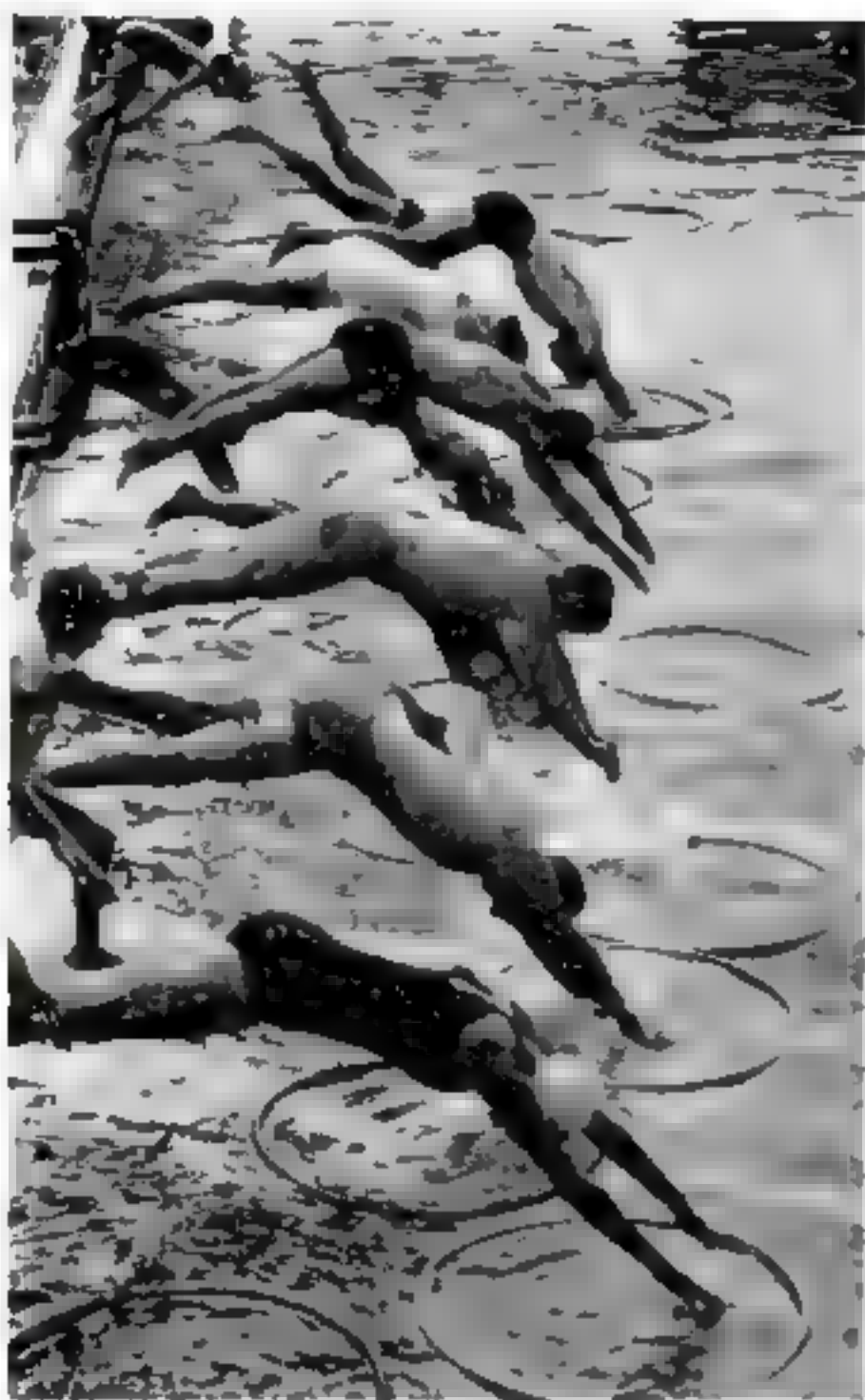
Hoops, powered by hips and a refreshing lack of inhibition, were spinning everywhere last week. The brightly colored plastic rings, three feet in diameter and variously called "Hula-Hoops," "Spin-a-hoops" and "Hoop-de-dos," were orbiting around four million undulating torsos in backyards, on playgrounds and beaches, at barbecues and cocktail parties all over the U.S. Said one breathless hoop huckster about the newest national craze: "It's bigger than Davy Crockett, bigger than Zorro, bigger than anything that ever hit the toy business."

The current boom in hoops, which small boys have been following down paths for centuries, began last spring in Los Angeles. Spud Melin of the Wham-O Manufacturing Company heard about the phenomenal sales of hoops in Australia and made a few out of a light, stiff polyethylene

plastic. He demonstrated them personally at local parks and schools, and kids began to buy them by the thousands. Hooping rolled east. Adults unlimbered their hips and picked up the idea. At least 40 more novelty makers hopped on the hoop wagon, and sales, at prices varying from \$1 to \$2, are expected to total 15 million by November.

The new hoops can be tossed in the air, skipped through and made to climb stairs. But the best fun comes in trying to keep the ring moving around the body without using hands. Women are more adept than men, but almost anyone who doesn't mind looking foolish while having fun can master the art. Instructions accompanying Spin-a-hoop say: "Hug the hoop to the backside. . . . Push hard with the right hand. . . . Now rock, man. rock! . . . Don't twist. . . . Swing it. . . . Sway it. . . . You got it!"

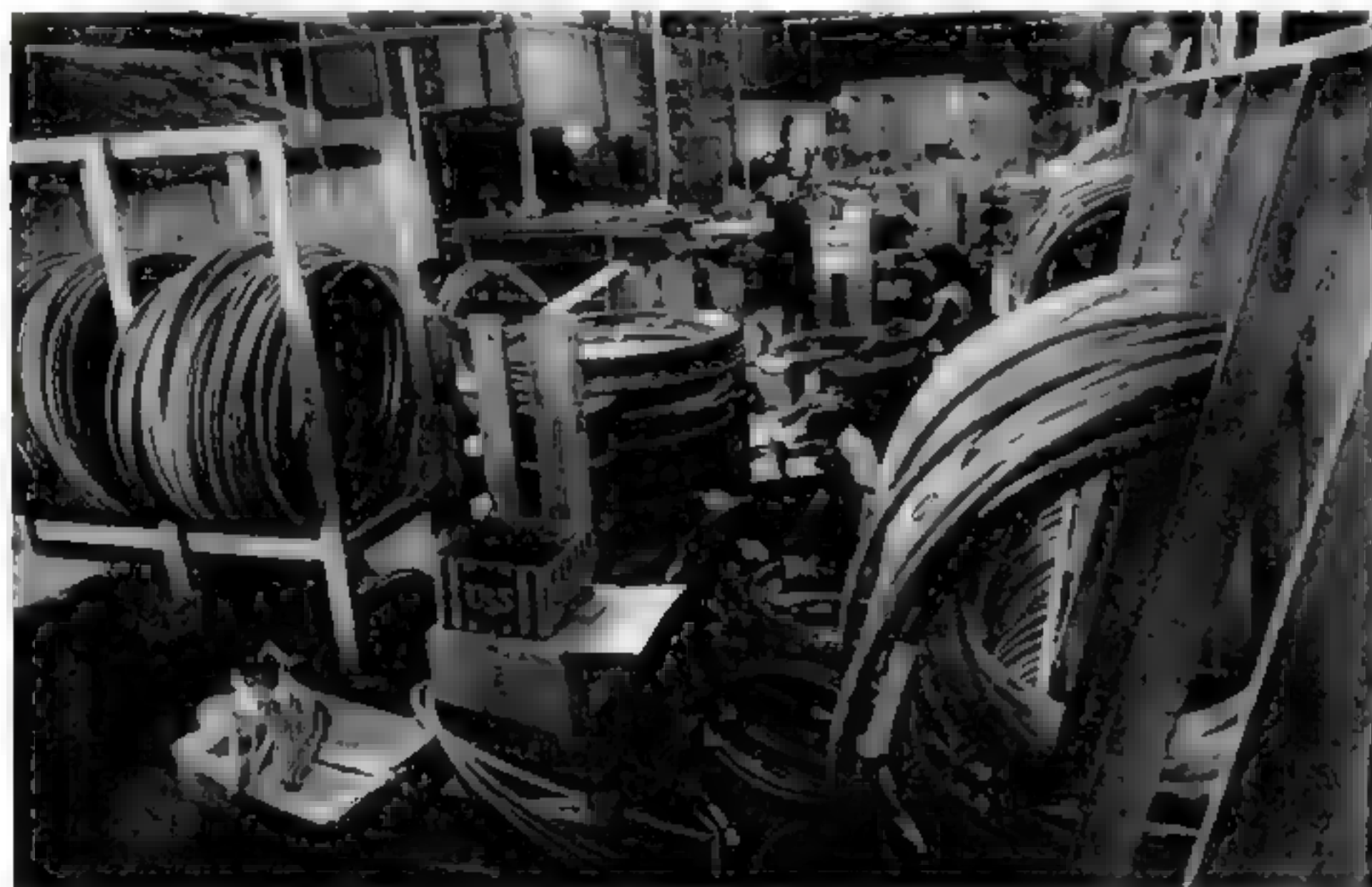
HOOPS CONTINUED



HOOP DIVING en masse is popular after-practice activity for young swimming team members and their guests at Olympic pool of Detroit Boat Club.



SPIN AND SWIM is hoop game played by children at North Hollywood, Calif. pool. Leaping into water are George Newberger (foreground) and Gary Olden.



HOOP FACTORY, the Wham-O plant in San Gabriel, Calif., turns out 20,000 hoops a day and is still falling behind on orders. The hoops, which cost only

about 50¢ to produce, are made by taking long strips of stiff polyethylene tubing, forming them into circles held together by a wooden plug and staples.



MASS "HOOPLA" IS PERFORMED BY 300 CHILDREN

WEIGHT REDUCING is the prime purpose of hoop used by hefty advertising man Jim Riley of Chicago.



RUNNING HOOPS, Ellen Ilfeld, 3, plays in Jackson, Mich. Object is to leap through ring as it is rolled by.



RELAXING HOOPSTERS at an Atlanta motel practice rotating at the pool during the cocktail hour. Atlanta department stores were selling hoops like hot cakes, had largely exhausted their supplies, were desperately trying to order more.





AT BROOKSIDE SWIM CLUB IN UNION, N. J. WHILE MOTHERS (UPPER LEFT) LOOK ON, CLUB'S ENDURANCE RECORD OF 3,000 SPINS IS HELD BY A 10-YEAR-OLD BOY

HAWKING HOOPS in Denver public relations man Dick Fenton (in striped jacket) explains the tricks of the toy to customers at a local benefit where the hoops were demonstrated by models (left). Sales proceeds were given to charity.



HOOPING QUARRY, Wally Conrad playfully lassos date Roberta Mouton, 20, at Oak Street Beach in Chicago.



ALLEY HOOP! is performed by amiable boxer in Grasse Pointe. Miriam Denise Renard, 3, plays ringmaster.





MULTIPLE HOOPING is demonstrated by Ricky Ifield, an 11-year-old Jackson, Mich., expert who here is keeping 11 hoops in operation simultaneously. Tracing of the patterns in this time exposure was achieved by first attaching tiny

light to each hoop, then catching Ricky's action with a stroboscopic flash. Other flexible hoopers can move the rings on neck, arms and hips at the same time and one boy can take his shirt off and put it back on again without dropping his hoop.

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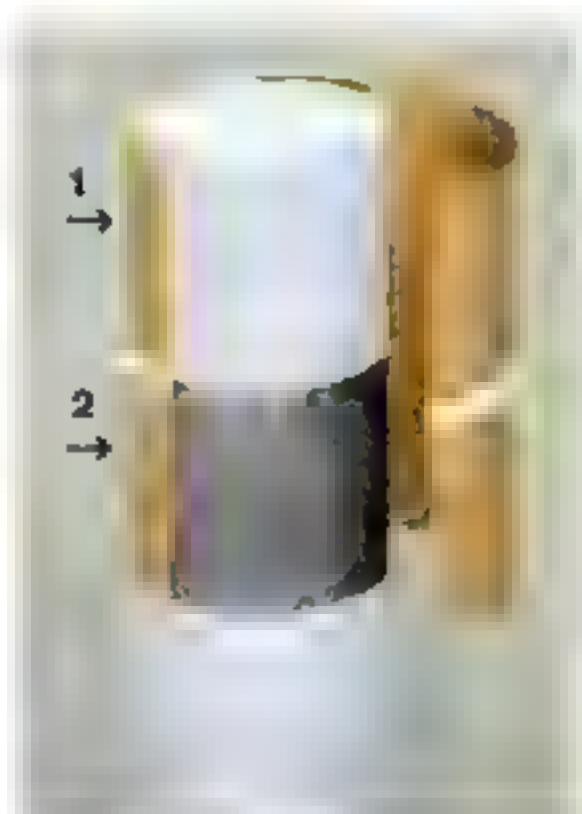
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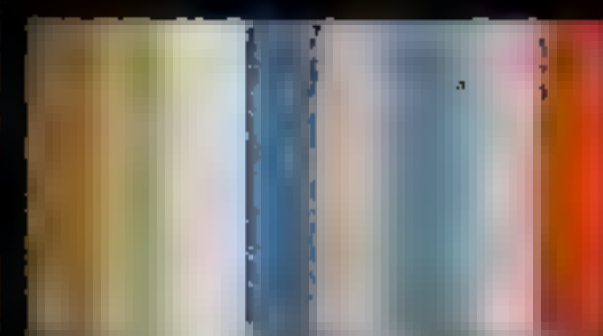
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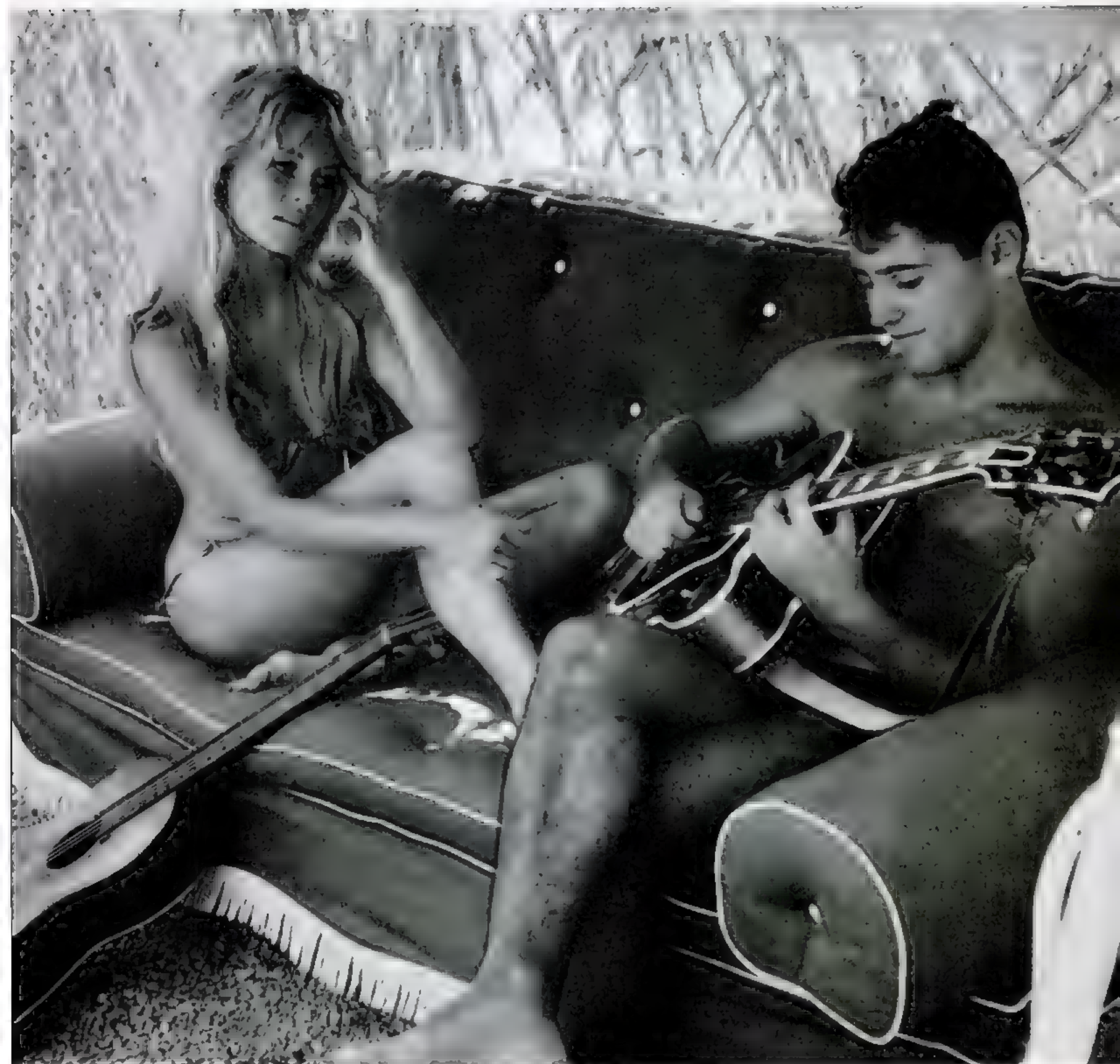
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AT GUITAR LESSON, BRIGITTE GIVES RAPT ATTENTION TO NEW TEACHER AND BOYFRIEND, SACHA DISTEL. THEY OFTEN SING TENDER LOVE SONGS TOGETHER

ZING GO THE STRINGS OF BRIGITTE'S HEART

If Brigitte Bardot has really found true love—and some people say she has—she owes it all to the guitar. This spring Brigitte did a bit of casual strumming while making a film in Spain. She liked it so well that she began taking lessons in earnest while vacationing this summer near St. Tropez on the French Riviera. Her teacher was 26-year-old Sacha Distel, a well-known guitarist and Paris nightclub entertainer.

There is ample evidence now that Brigitte is more than teacher's pet. When the couple attended the wedding of a jazz band leader named Moustache at nearby Antibes, they beamed dewily at each other and Brigitte

was heard murmuring to Sacha, "*C'est beau, décidément, le mariage*" (marriage is decidedly beautiful). Whenever she says "Sacha," Brigitte actually sings it, and it sounds like "Sachaaaaa."

When not involved with their guitar lessons, Brigitte and Sacha go swimming, sunning, water-skiing and boating from the tiny beach in front of her \$100,000 villa. At night they go to small nightclubs in St. Tropez, where Brigitte's former husband has also been vacationing with his new wife. Sacha, however, is not just idling. He has been turning time to profit by composing a song called *Brigitte* which is coming out this fall.

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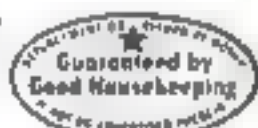
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BRIGITTE CONTINUED

ROMANTIC MOOD AT A WEDDING



BEST WISHES are given by Brigitte and Sacha to the bridal couple (left).
Bridegroom is jazz band leader called Moustache; bride is ex-behop dancer.



IN SENTIMENTAL GLOW Brigitte and Sacha take part in informal wed-
ding festivities, where they almost stole the show from principal participants.



HOLDING HANDS during the ceremony, Brigitte and Sacha join throng of
musical and theatrical friends who came to the wedding in beach attire.



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BRIGITTE CONTINUED



PLAYING BOULES, a bowling game, Brigitte tosses ball, along with Sacha and Claude Dresse, wearing pajamas sent out as promotion for *Pajama Game*.



GOING SHOPPING in outdoor markets of St. Tropez, Brigitte begs Sacha to buy her a toy trumpet and, in her excitement, spills trumpets on ground.

CONTINUED

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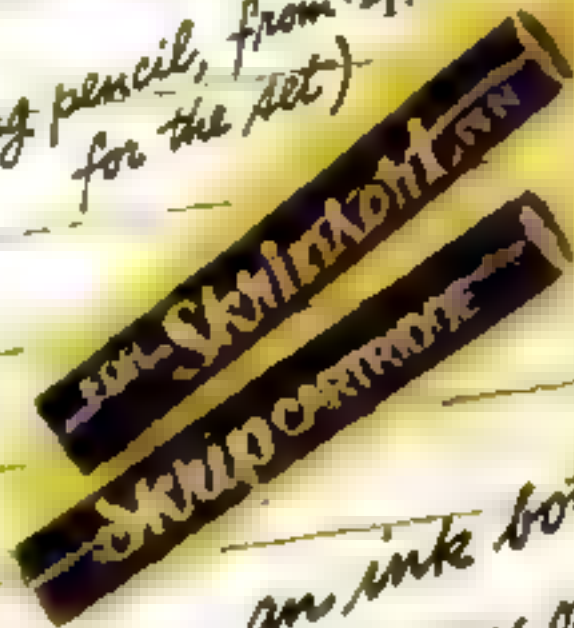


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*Ballpoint Fluid



First stop
before you go
back to school

SHEAFFER'S



SNUGGLING, the couple finds some privacy on terrace in front of Brigitte's house where Sacha is vacationing with his mother, father and three friends.



SUNNING, Brigitte and Sacha shun crowded beach where she is mobbed by tourists who visit St. Tropez because it is known as "Bardot Country."

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ENJOYING OUTER MONGOLIA SPORTS FESTIVAL, MOLOTOV, IN SUMMER HAT, STANDS WITH GRANDCHILD AND WIFE PAULINE TO WATCH TATAR LONGBOWMEN

THERE IS LIFE IN OLD MAN 'NYET' YET

The inscrutable face of Vyacheslav Molotov, for years an imposing sight at momentous world diplomatic gatherings, suddenly turned up at a picnic occasion—an archery contest in Outer Mongolia. As Russian foreign minister for 17 years, Molotov was famous as a “nyet” (no) man. At home he was so skillful in the treacherous political currents that he was nicknamed “Old Stone Bottom” for his ability to sit out trouble. He served and outlasted Lenin, Stalin and Malenkov, and worked for Khrushchev for more than three years before he was finally fired. Reprimanded and demoted, he was banished last summer to Ulan Bator, 3,000 miles from Moscow, as ambassador to the Mongolian People's Republic.

Nothing was heard of him and it seemed he might, like other fallen party members, never appear again. But these pictures taken at the Mongolian state's independence anniversary in July show Old Stone Bottom, only a little south of the Siberian border but still durably sitting it out.

GRANDFATHERLY CONCERN moved Molotov to give his granddaughter his hat to keep off the sun. Mrs. Molotov was once Soviet commissar of cosmetics.



CONTINUED

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Old Man 'Nyet' CONTINUED



DRESSED UP FOR JOB in Ulan Bator's main square, Molotov wears uniform of Soviet ambassador at parade to celebrate Mongolian independence in 1921.

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THE ENCHANTED ISLES

Text by LINCOLN BARNETT

[illegible]

THE ROUTE OF THE "BEAGLE" (*dotted line*) took Darwin to four of the 13 Galápagos islands. He spent a month observing animal life and noting how the same creatures differed from island to island. The map outlines the physical features and shows typical animal life found there, still little changed from his visit 123 years ago.



A GIANT TORTOISE, SENSING DANGER, DRAWS IN ITS HEAD WITH A HISS OF ALARM. IT WEIGHS 500 POUNDS, MEASURES 51 INCHES DOWN THE BACK

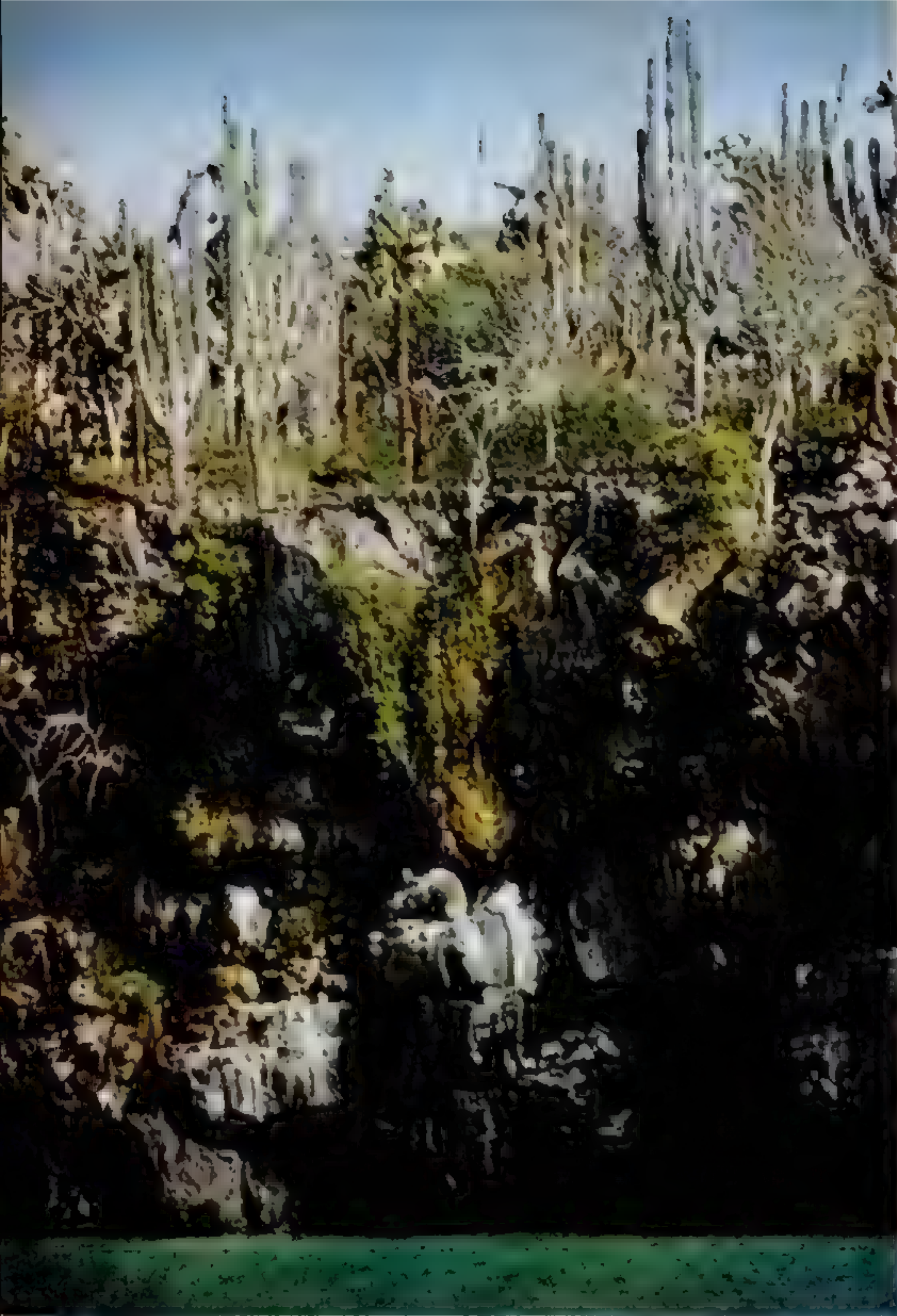
Land of mystery gave Darwin a living theater of evolution

IN July 1835 Darwin wrote a letter home from Lima, Peru, declaring, "I look forward to the Galápagos with more interest than any other part of the voyage." He had been with the scientific expedition aboard *H.M.S. Beagle* for more than three years as it rounded the South American continent (LIFE, June 30); he had explored jungles and pampas, walked the wild shores of Tierra del Fuego, and scaled the Andes. His notebooks teemed with thousands of observations which his mind was now piecing together into a vast new picture of the natural world. He was convinced of the *fact* of evolution, but he had not yet deduced its processes. On the remote Galápagos archipelago he was to find the clue.

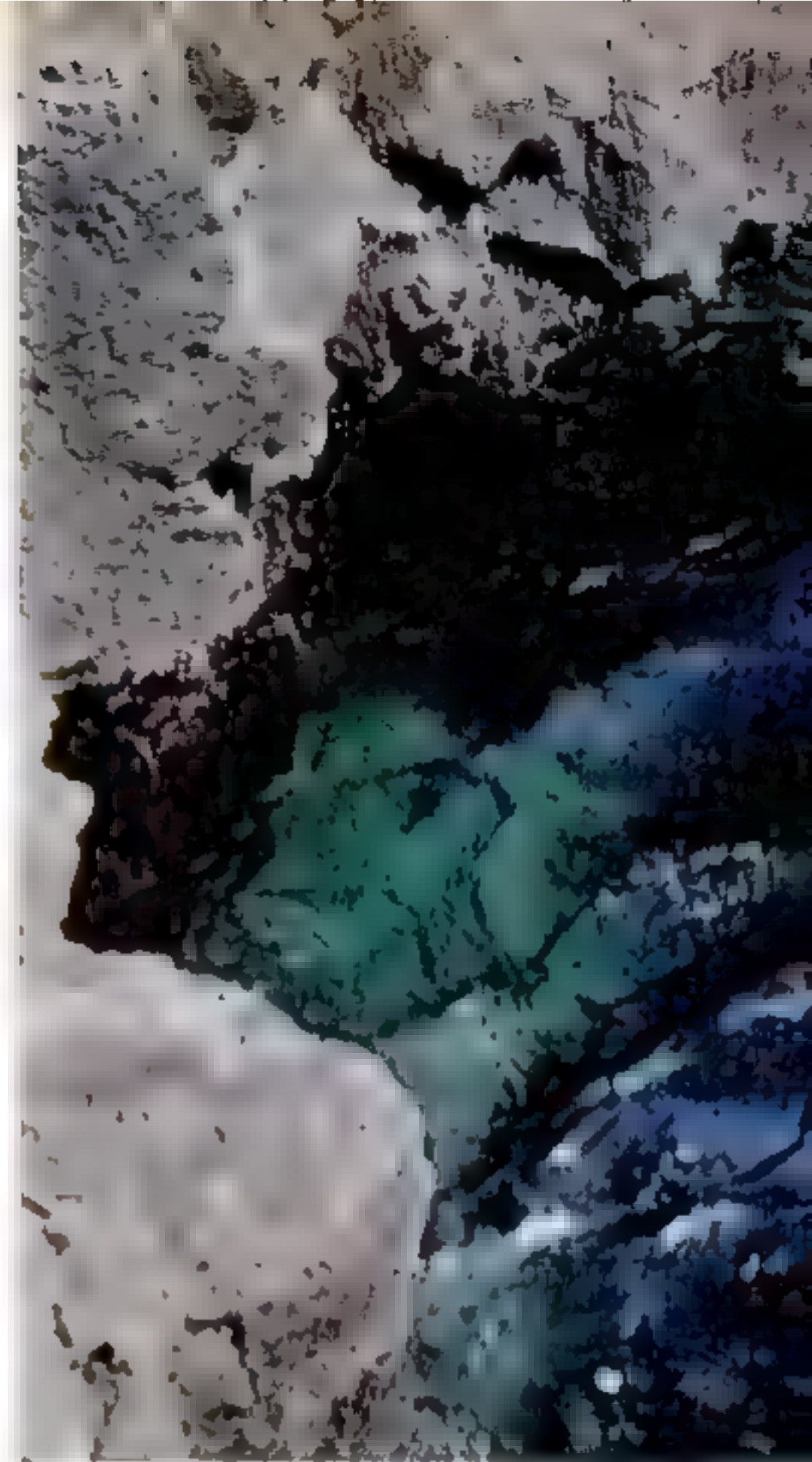
As a young man of 26, Darwin had good reasons for looking forward to the Galápagos. For this cluster of lonely volcanic islands, spanning the equator 650 miles west of the mainland, lay shrouded in mystery and myth. Discovered in 1535, they had remained uninhabited for three centuries, save by buccaneers and whalers. The Spaniards had called them *Las Islas Encantadas*, or the Enchanted Isles, because of the capricious currents which seemed to endow them with magic power to attract or repel the ships that raised their shores. The *Beagle* arrived on Sept. 15, and Darwin gazed with awe at a forbidding scene—black basaltic mountains, pitted, cratered, blistered, seamed with lava flows, littered with slag heaps, strewn with cinders, parched and prostrate beneath a smoldering,

sullen sky. To his eyes the landscape suggested "what we might imagine the cultivated parts of the Infernal regions to be." A few days later he glimpsed the giant tortoises (*galápagos* in Spanish) which gave the islands their name. "These huge reptiles," he wrote, "seemed to my fancy like some antediluvian animals."

Darwin remained for only five weeks, but they were crucial weeks in his life. Working with rapt intensity, he realized that he had stumbled on a living laboratory of evolution—"a little world within itself." Most of its inhabitants were unique, found nowhere else on earth. More remarkable, the individual species varied from island to island—*i.e.*, a finch or tortoise on one island was clearly different from a finch or tortoise on another island just a few miles away. How did these differences arise? This was the "great difficulty" which Darwin sensed held the clue to a deeper mystery—the means by which new forms of life appear on earth. He pondered it for the next 20 years, and when he had found the answer and set it forth at last in *The Origin of Species*, man's conception of his place in the world was never the same again. Since Darwin's momentous visit many of the Galápagos islands have been despoiled. Yet on some, the primeval populations, though waning in numbers, still survive. In this article LIFE revisits the Enchanted Isles and looks again on the strange creatures that baffled and inspired Darwin a century ago.



LAVA CLIFF on Indefatigable Island, mounting above cool, turquoise waters, shows aridity of the Galapagos climate by its crown of cactus trees.

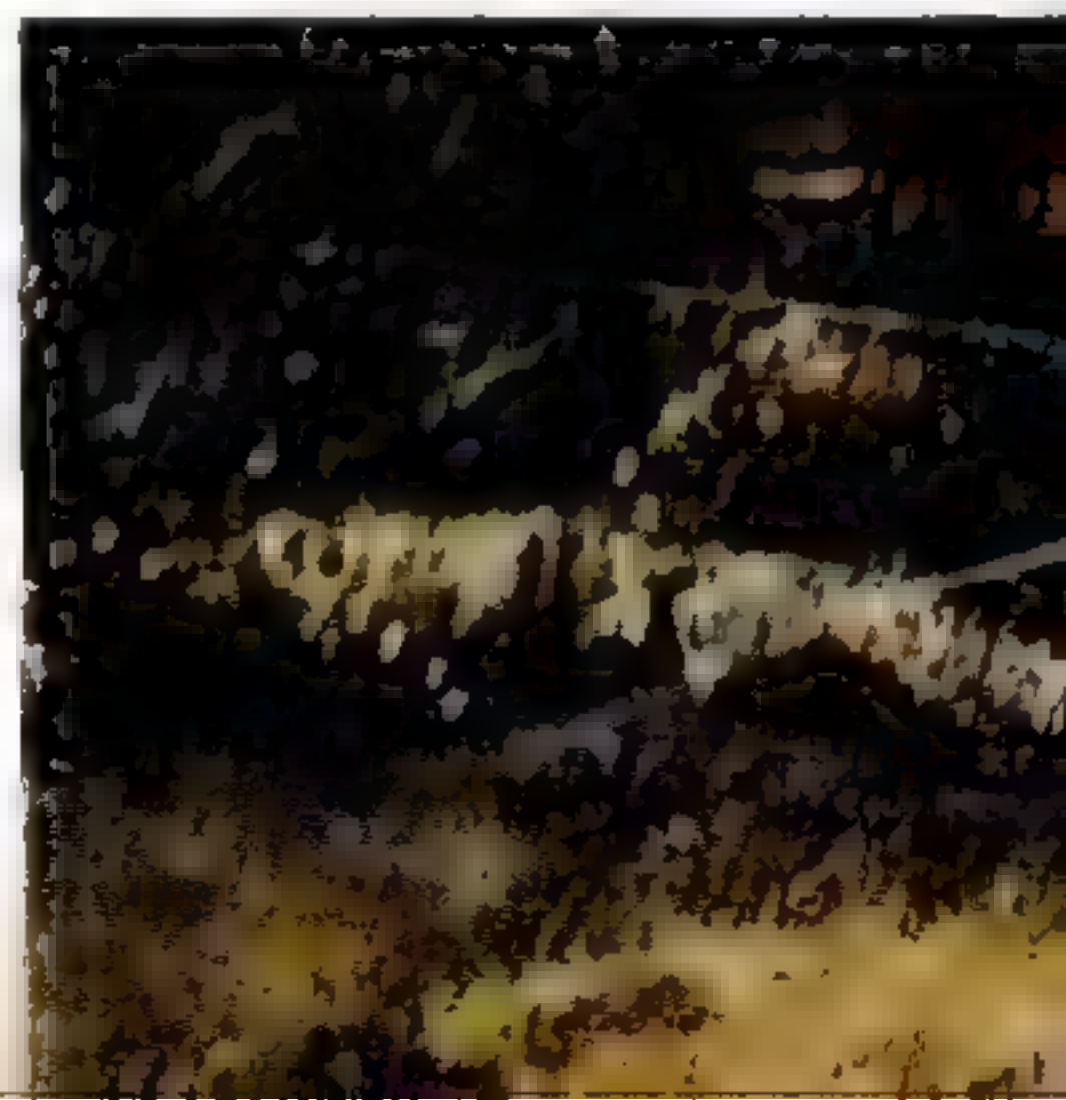


COASTAL POOL on James Island is roiled by sportive splashing of a sea lion enjoying a dip. Playful and tame, Galapagos sea lions have held

REALM OF

Many wonders of the Galapagos world are creations of its curious climate. Though bisected by the equator, its islands are bathed by the great Humboldt current which, surging up the continental coast, brings upwelling waters 15 to 20° colder than the surrounding tropic sea. The combination of cool water and equatorial sun has produced a domain of nature like nothing else on earth. Except for a brief, variable season of thunderstorms and squalls from December to March, little rain falls. The trade wind blows, springs dry up, and the lava-laden lowlands sustain only a desert cover of thorny bushes and cactus down to the edges of the sea (*left*). The mountain slopes, however,

BABY PENGUINS, one month old, sprawl on a rocky roost on Albemarle Island. The Galapagos penguin is the northernmost member of its family.



SCARLET ROCK CRAB squirts water in a moment of fright. Hosts of these crabs search rocks for food, seldom entering the sea though



their own against man's depredations, dwelling in herds on the rocks. Males often acquire harems of about 20 females which they guard jealously.

THE ROCKS

rising to heights of several thousand feet, are shrouded in veils of mist, and in these moist uplands tall trees grow, green and leafy, hung with lichens and orchids, moss and fern.

Yet it is not in the uplands but amid the clefts and caverns of the coastal zone that the animal life which Darwin noted more prolifically abounds. Here drought is no drawback, for its inhabitants live on the bounty of the sea. The cool Humboldt current conveys an unending supply of food to the keen-eyed watchers on the cliffs. And it has created, here on the very equator, a curious colony of expatriates from colder climes—sea lions, fur seals and, strangest *émigrés* of all, penguins, flightless exiles from a distant antarctic home.

always moistened by spray. Surprisingly nimble, they skitter swiftly into crannies before the winged shadows of their enemies, the predatory birds.



BROWN PELICAN nests in mangrove clump with fledglings at its feet. Kin to the U.S. pelican, it feeds by scooping small fish into its pouch.

YOUNG FUR SEAL suns itself on lava rocks of James Island. At three months, it has been weaned and has learned to swim and forage for itself.





WILD CUCUMBER, kin of the garden variety, produces seed pod (above) bearing bright red seeds (below), which are relished by Vegetarian Finches.



LAVA LIZARD dines on a smaller member of his tribe, an unusual meal since lizards normally eat insects. Most abundant of local reptiles, lava

lizards are found everywhere on the islands, including the homes of men. When angry they blow themselves up with air and spit their displeasure.

THE INLAND DOMAIN

Every visitor to the Galapagos who has ventured inland from the coast has painted a dismal picture of what he found. Darwin, after his first walk in the interior, wrote: "Nothing could be less inviting . . . A broken field of black lava thrown into the most rugged waves and crossed by great fissures is everywhere covered by stunted, sunburnt brushwood, which shows little signs of life. . . . An acacia and a great odd-looking cactus are the only trees which afford any shade." A later visitor, the novelist Herman Melville, was even more repelled: "Little but reptile life is here found . . . no voice, no low, no howl is heard; the chief sound of life here is a hiss. . . . In no world but a fallen one could such lands exist."

Yet Darwin, ignoring discomfort, made repeated forays into the badlands. He counted 185 species of plants and ascertained that 100 were new types—"a proportion sufficient to make the Galápagos archipelago a distinct

botanical province." For endless hot hours he studied the habits of the tortoise and timed its rate of progress, finding it to be 360 yards an hour or four miles a day, "allowing a little time for it to eat on the road." Observing a zoological vacuum in the absence of mammals, he hunted tirelessly and turned up two: a mouse, which he considered indigenous, and a rat, which he decided had jumped ship.

But it was from his cumulative perception, after days of weary work, of the variations within species from island to island that Darwin derived his most crucial insight. "I never dreamed," he wrote, "that islands 50-60 miles apart . . . would have been differently tenanted. . . . It is the circumstance that [they] possess their own species of tortoise, mocking thrush, finches and numerous plants, these species having the same habits . . . and filling the same place in the natural economy of this archipelago, that strikes me with wonder."



PRICKLY PEAR CACTI reach tree size in the Galapagos, rearing their oval pads to heights of more than 30 feet. Flourishing across the arid

lowlands, they provide both food and water to tortoises, iguanas and other animals who consume them—spines and all—with no apparent ill effects.

CONTINUED



THE PRIMORDIAL POPULATION is best preserved on Narborough Island. In this painting all major species are shown as they exist today in peaceable association on the spray-blown cliffs beneath Narborough's live volcano. The

time is November, start of the breeding season for marine iguanas, when the males put on their courting colors. The big, crested fellow atop the rock at left is defending his harem against an intruder. Nothing is likely to happen, for

'A FIT SHORE FOR PANDEMONIUM'

The island of Narborough, almost alone in the Galápagos, remains an untouched sanctuary. Man has never settled here nor loosed his dogs and other alien animals that elsewhere have upset the equilibrium of nature. To this day its lava ledges swarm with all the strange, improbable and antique island faunas that moved the master of the *Beagle*, Captain Fitz-Roy, to term the crawling cliffs of the archipelago "a fit shore for



despite their formidable armament, iguanas dislike bloodshed; they prefer ritual fights in which they tense up, glare, and then butt their heads together, goat-fashion, until one gives way. Confirmed vegetarians, they tend to ignore

the crabs that scuttle over their bodies hunting ticks, and live on algae and seaweed which they nibble from exposed rocks at low tide (*center foreground*). On the guano-whitened rock at right a young flightless cormorant enjoys a

Pandemonium." The primeval aspect of Galápagos life, depicted in this painting, stems largely from the prevalence of iguanas. In the virtual absence of mammals, Darwin perceived that "the order of reptiles gives the most striking character to the zoology of these islands."

Nowhere else on earth have reptiles engendered such prodigies as the giant tortoise and the dragonlike marine iguanas shown above at left.

Even the birds have hatched anachronisms—e.g., the flightless cormorant (*above right*) which like the extinct dodo has lost the use of its wings. Far from finding inability to fly a defect leading to extinction, the Galápagos cormorant proliferates exuberantly and is today the largest cormorant on earth. With few exceptions these creatures include no predators and show no fear either of each other or of man. As one who in his youth

FOLD OUT: DO NOT TEAR



cracking a hard Cat-claw seed in its powerful beak. In the background, at right center, a Small Insectivorous Tree Finch hunts on the wing, while its mate perches on a nearer branch and a Vegetarian Tree Finch plucks a berry

from the cluster on the tree at right. Lower on the trunk, a Tool-using Finch — one of the greatest rarities in nature — uses a cactus spine to dislodge insects from crevices too deep for its bill to probe. Above, at far right, a Warbler



DARWIN'S FAMOUS FINCHES are assembled in this painting of a lowland landscape on Indefatigable Island. At left a pair of Cactus Ground Finches inspect a vacant nest in an *Opuntia* cactus, while a Medium Ground Finch

poises ready to probe for pollen and nectar in the yellow bloom above. In the center foreground, a Small Ground Finch pecks at an *Opuntia* fruit, watched by a Medium Ground Finch and a Large Ground Finch which is



meal of regurgitated fish from its mother's throat pouch. In the lower right-hand corner, beneath a clump of cactus, a Galapagos snake (one of few local predators) dines on a lava lizard. In the middle distance are pelicans (*upper*

left), sea lions and penguins (*right center*), more iguanas and more cormorants (*right*). In the far distance a pair of blue herons perch atop some mangrove trees. Overhead, frigate birds soar on powerful wings scanning the sea for fish.

was fond of shooting. Darwin wrote: "A gun here is almost superfluous; for with the muzzle I pushed a hawk off the branch of a tree."

Astonished by the tameness of the Galapagos birds, he decided they had not yet learned that man is a dangerous animal and therefore "disregard him in the same manner as in England today shy birds disregard the cows and horses grazing in our fields. . . . We may, I think, conclude

that the wildness of birds with regard to man is a particular instinct directed against *him*, and . . . that in successive generations it becomes hereditary." Until now man's invasions of the Galápagos have been happily infrequent. It is this circumstance which has preserved aboriginal life and endowed the Enchanted Isles with the look of eternity, as though the river of time had frozen in some peaceful epoch of the prehistoric past.



Finch opens its bill to devour a luscious larva. In the lower righthand corner a Large Insectivorous Tree Finch has descended to the ground to gobble a grub. In the center of the picture a land iguana munches an Opuntia fruit.

DARWIN CONTINUED

'A MOST SINGULAR GROUP OF FINCHES'

Until he came to the Galápagos, Darwin had thought of evolution in terms of vast reaches of time and major differences of natural environment. But here in a tiny island cosmos he saw to his amazement that species could diversify in identical physical conditions and a brief span of time. Discovering among the land birds "a most singular group of finches," he noted that "the most curious fact is the perfect gradation in the size of their beaks." There were 13 species in all, varying in both beak structure and habit (*chart below*); some hunted seeds on the ground or insects in the trees, some fed on fruits and flowers. Their plumage varied with their habitat, from lava black to leafy gray and green.

Although it took Darwin years to understand this diversity within one small group of birds, he surmised that an aboriginal family of finches had been early colonists of the Galápagos and had been "modified for different ends"—i.e., they had seized divergent opportunities and diverged because of them. They had exploited varying ways of life left open by the absence of competitors. Had a true warbler preceded them, it is doubtful that the Warbler Finch would have evolved. But isolated in their domain the finches who were most successful—the fittest—survived.

INSECT EATER



WARBLER FINCH

PRIMARILY INSECT EATERS PLUS SOME PLANTS



LARGE INSECTIVOROUS TREE FINCH

MEDIUM INSECTIVOROUS TREE FINCH

SMALL INSECTIVOROUS TREE FINCH



TOOL-USING FINCH

MANGROVE FINCH

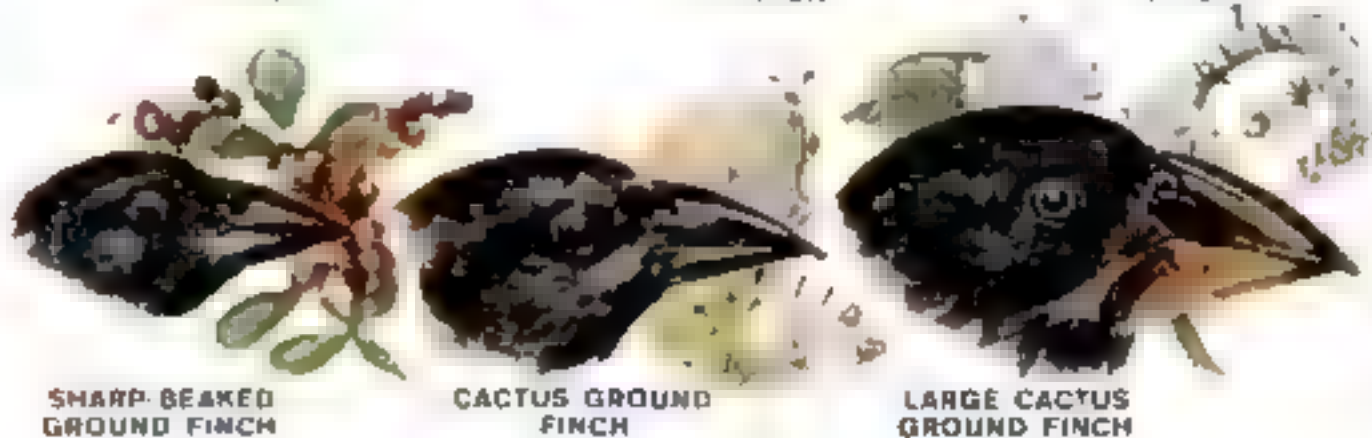
PRIMARILY PLANT EATERS PLUS SOME INSECTS



LARGE GROUND FINCH

MEDIUM GROUND FINCH

SMALL GROUND FINCH



SHARP-BEAKED GROUND FINCH

CACTUS GROUND FINCH

LARGE CACTUS GROUND FINCH

PLANT EATER



VEGETARIAN TREE FINCH

CONTINUED



LAND IGUANA climbs a tree in quest of greenery. Although these big sluggish lizards seek food mostly on the ground, Darwin noted, "to obtain

acacia leaves they crawl up low stunted trees. It is not uncommon to see a pair quietly browsing ... on a branch several feet above the ground"

'IMPS OF DARKNESS'

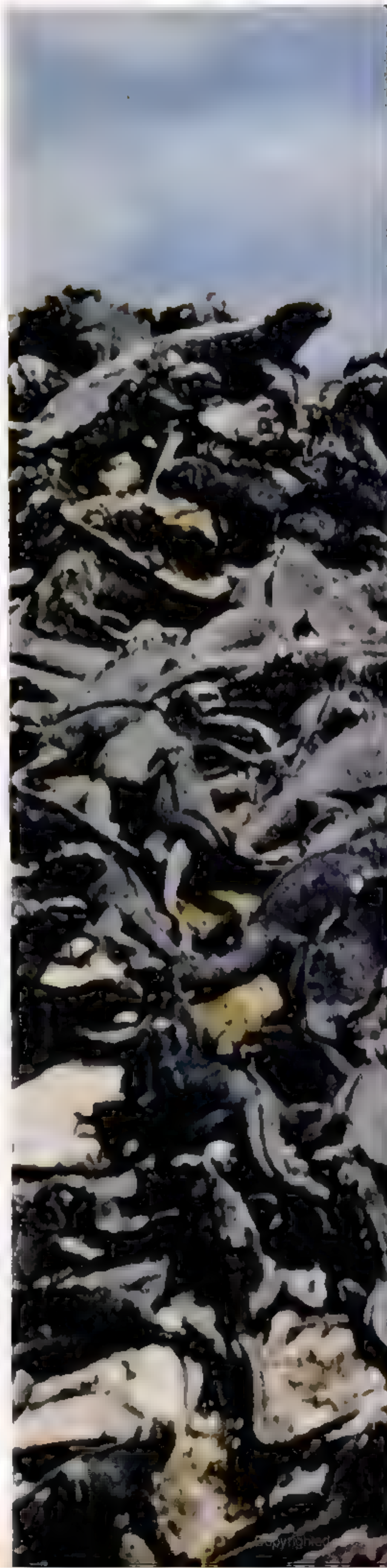
Of all the animals within the Noah's Ark of the Enchanted Isles, by far the most conspicuous and bizarre are the iguanas of land and sea. Found nowhere else on the planet, the big marine iguanas, warted, bossed and crenellated like dragons, armed with sawlike teeth and knifelike talons, seem incarnations from the age of dinosaurs. No other creatures of the Galápagos so perfectly embody their environment. The scales that stud their heads and spines are sculptured like volcanic cones. Their black and gray skins reflect the colors of lava and surf. Darwin, a writer who rarely indulged in imagery, called them "imps of darkness."

Yet for all their Plutonian appearance, the iguanas are essentially mild and torpid monsters which harm no other living things. The marine iguanas go through life doing nothing more than basking in the sun and munching seaweed at low tide. Darwin found that despite their aquatic feeding habits they avoided the water when frightened. He proved this to his satisfaction by heaving one bodily into a tidal pool several times in succession, and

noting that each time it swam swiftly and directly back to shore—and to him. "Perhaps this singular piece of apparent stupidity," he wrote, "may be accounted for by the circumstance that this reptile has no enemy whatever on shore, whereas it must fall prey to numerous sharks. Hence probably urged by the fixed and hereditary instinct that the shore is its place of safety, it there takes refuge."

The land iguana differs from its aquatic relative only in habit and a few physical features of body and tail. It too is largely a vegetarian and a pacifist by temperament. One day, watching an iguana dig a burrow, Darwin pulled it out by the tail. "At this it was greatly astonished," he wrote, "and soon shuffled up to see what was the matter; and then stared me in the face, as much as to say, 'What made you pull my tail?'" As a field naturalist, Darwin decided that there remained one final question about the land iguana which he must answer. So he ate one and reported that they "yield a white meat which is liked by those whose stomachs soar above all prejudices."

SEA IGUANAS sprawl along the coast of Narborough Island where they propagate in greatest numbers. Only marine lizards in the world, they are graceful swimmers. Adults average three feet in length, 20 pounds in weight. →





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FORBIDDING COAST of James Island where Darwin camped consists of rock laid down as volcanic ash in ancient times. Here Darwin lived on tortoise meat which he found "indifferent" but a base for "excellent soup."

RIDDLES OF GALAPAGOS

Although Darwin's visit to the Galápagos Islands added an indispensable piece to the mighty mosaic of his theory, he discerned its outlines only dimly at the time. For, unlike other great geniuses of science, Darwin enjoyed no lightning flashes of revelation. Whereas Newton found the law of gravitation in the falling of an apple when he was 24 years old, and Einstein published his historic paper on relativity at the age of 26, Darwin had reached 50 before he finally synthesized the harvest of his observations into his masterwork *The Origin of Species* (LIFE, June 30).

During his weeks on the Galápagos, Darwin saw and studied the curious animals and plants shown on the preceding pages. They raised key questions which he articulated, overtly and by implication, in his account of the *Voyage of the Beagle*, published in 1839, three years after his return. The fact that even then he recognized them as crucial confirms the aphorism, *Prudens quaestio dimidium scientiae* ("To ask the proper question is half of knowing"). But he did not give his answers until he had fortified them with overwhelming documentation and detail two decades afterward.

At the very outset of the section on the Galápagos in his journal of the *Voyage*, Darwin remarks: "The natural history of these islands is eminently curious. . . . Most of the organic productions are aboriginal creations, found nowhere else; there is even a difference between the inhabitants of the different islands; yet all show a marked relationship with those of America, though separated from that continent by an open space of ocean, between 500 and 600 miles in width. . . . Seeing every height crowned with its crater, and the boundaries of most of the lava-streams still distinct, we are led to believe that within a period, geologically recent, the unbroken ocean was here spread out. Hence, both in space and time, we seem to be brought somewhat near to that great fact—that mystery of mysteries—the first appearance of new beings on this earth."

Thus in one pregnant paragraph Darwin states the essence of the problem that would haunt him for the next 20 years. If the Galápagos Islands had risen by volcanic action from the depths of the open sea, how did life arrive on their barren lava shores? Why were some Galápagos inhabitants unique to the islands while others appeared to be related to mainland forms? Why did the tenants of one island differ markedly from those on another island nearby? These were the

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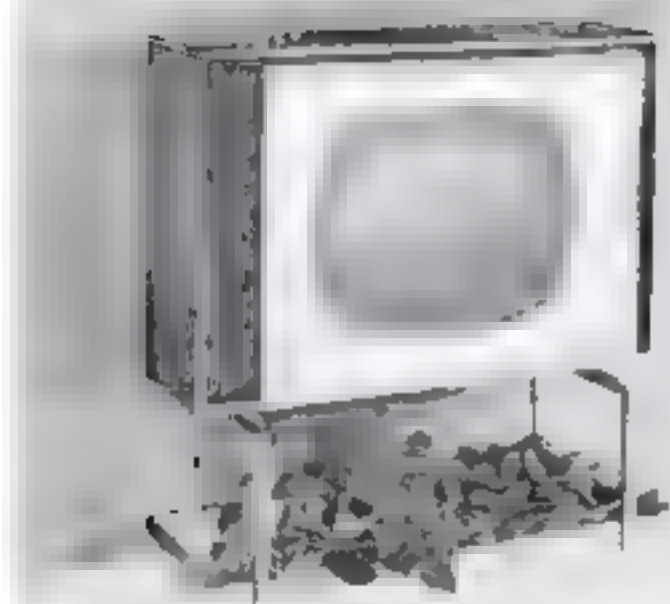


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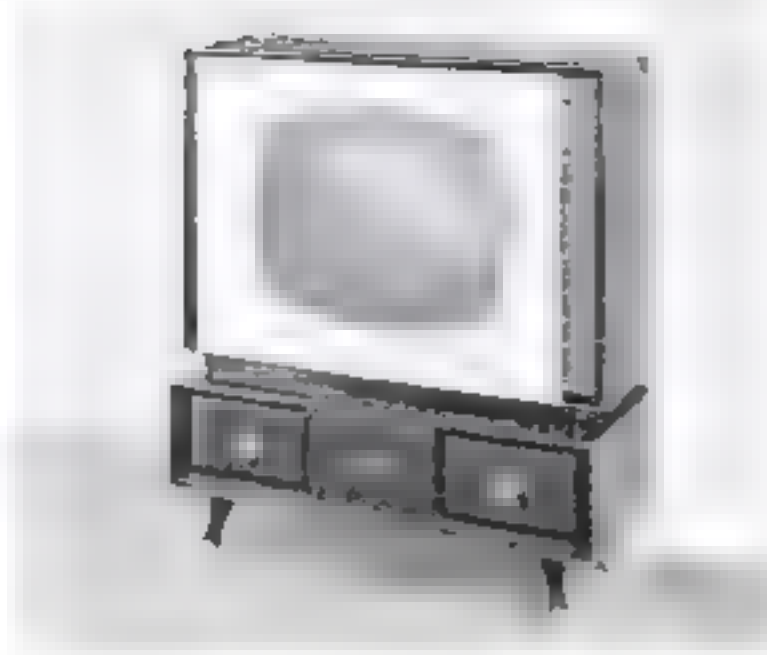
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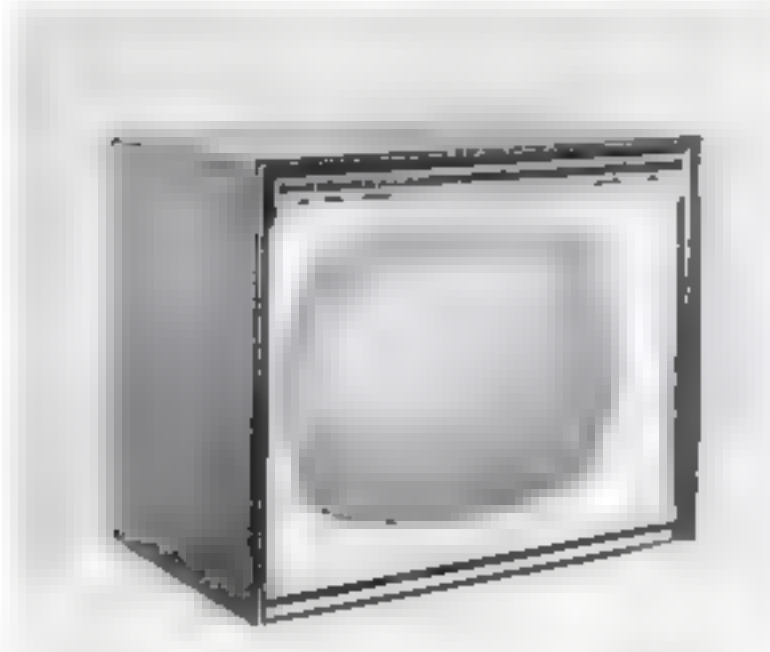
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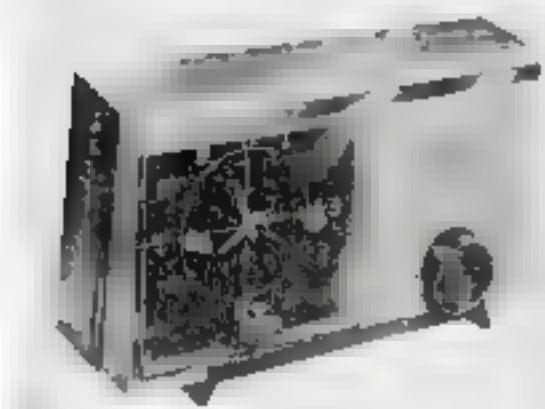
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DARWIN CONTINUED

riddles which, Darwin knew, held the key to the enigma of evolution.

The advent of life on the Galápagos, he reasoned, might be explained by supposing that at one time a land bridge connected the islands with the South American continent. But he rejected this explanation because of the freakish imbalance of the Galápagos populations—the virtual absence of mammals, the total absence of toads and frogs, and the extraordinary profusion of reptiles. Had a land bridge once afforded access from the mainland, more migrants would have used it. The small number of species, contrasted with the richness of indigenous forms, pointed to the conclusion that life was conveyed to the islands haphazardly by sea and air. Such a theory would explain why the present population included no frogs but many lizards. "May this difference not be caused," he asked, "by the greater facility with which the eggs of lizards, protected by calcareous shells, might be transported through salt-water, than could the slimy spawn of frogs?" To support his theory of accidental transport Darwin performed many experiments in the years following his return to England. He immersed seeds in sea water for several months and found that some would still germinate. He successfully grew plants from seeds that birds had ejected in their droppings, from seeds that had clung to mud on birds' feet, and from seeds contained in a half ounce of locust dung mailed to him by a friend in Africa.

But the most baffling riddle still remained. In his journal he reverts repeatedly to "the most remarkable feature in the natural history of the archipelago: it is that the different islands to a considerable extent are inhabited by a different set of beings." It was the vice-governor of the islands who had first called his attention to this fact by remarking that he could tell by looking at a tortoise what island it came from. "I did not for some time pay sufficient attention to this statement," Darwin related, self-reproachfully. "I never dreamed that islands about 50 to 60 miles apart, placed under a quite similar climate, would have been differently tenanted." It was not the tortoises, however, but the finches (pp. 65-67) that gave Darwin his ultimate insight into the mechanisms involved in the origin of species. Describing the variations in the 13 species of Galápagos finches in his journal, he made this revealing statement: "One might really fancy that from an original paucity of birds in this archipelago one species has been taken and modified for different ends."

Darwin apparently had already conceived the idea that competition could be as important as climate and geography in the development of new forms of life. It was only after 20 years of research and contemplation that he convinced himself that competition represented the missing piece in his theory of evolution. His difficulty had arisen, he wrote in *The Origin of Species*, "from the deeply seated error of considering the physical conditions of a country as the most important; whereas it cannot be disputed that the nature of the other species with which each has to compete, is at least as important. . . . Hence, when in former times an immigrant first settled on one of the islands, or when it subsequently spread from one to another, it would undoubtedly be exposed to different conditions in the different islands, for it would have to compete with a different set of organisms. . . . Undoubtedly if one species has any advantage over another, it will in a very brief time wholly or in part supplant it."

Thus all of the 13 species of finches on the Galápagos must have been descendants of a common ancestor which had migrated from the mainland—blown perhaps in an equatorial storm—at some time in the not-too-distant past. On the populous mainland the struggle for existence, amid a horde of competitors, would have restricted them to a narrow niche in the economy of nature. But the absence of other land birds on the Galápagos enabled the finches to evolve in directions that otherwise would have been closed. Finding a wide-open domain of existence within which they had an unrestricted choice of food and habits, some became seed-eaters, some became cactus-eaters, some sustained themselves on berries or the nectar of

CONTINUED

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1957 EXPEDITION was led by Dr. I. Eibl-Eibesfeldt of West Germany and Dr. Robert Bowman of U.S. Behind them: LIFE's Photographer Alfred Eisenstaedt and Artist Rudolf Freund who illustrated this article.

DARWIN CONTINUED

flowers, some hunted insects on the wing. In time their physical equipment adapted itself to their divergent ways of life.

It was through his observations in the Galápagos, therefore, that Darwin could see evolution at work not in the antique fossil past, but in the living present. Here he beheld a domain unlike any other on earth, existing in isolation, unravaged by man, a miniature island cosmos where nature's processes could be clearly viewed in one small amphitheater.

In the 123 years that have elapsed since Darwin sailed away from the archipelago the only major changes have been wrought by man. Evolution moves at tortoise pace, and all forms of life that Darwin studied are still there—in kind. But the ruthless depredations of man and of his domestic animals, gone wild, have reduced them in numbers so drastically that on some islands certain species have been annihilated utterly, and on others are threatened with extinction. Tortoises are slaughtered for their meat and fat. The land iguanas have been hunted for their skins. And to this day, as in Darwin's, "sailors, wandering through the woods in search of tortoises, always take cruel delight in knocking down the little birds."

Although the Republic of Ecuador, which administers the islands, enacted conservation laws in 1934, they have not been successfully enforced. Last year UNESCO, in collaboration with international conservation groups, dispatched a survey team to the Galápagos to study measures of protection. The expedition was headed by Dr. Ireneus Eibl-Eibesfeldt of the Max Planck Research Institute, West Germany, and Dr. Robert Bowman of San Francisco State College. In their report they recommended 1) the establishment of a biological research institute—to be known as the Darwin Memorial Station—on Indefatigable or James Island; 2) the designation of more than a dozen islands, including Narborough, as inviolate wildlife sanctuaries; 3) strict enforcement of laws protecting unique, aboriginal species; 4) the creation of a breeding and restocking colony for tortoises; and 5) education of the human population on the priceless value of the indigenous forms of life. Last July these recommendations were approved at the International Zoological Congress in London, giving hope that Darwin's living laboratory of evolution may not perish.

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TUCSON	Given Bros.	POCATELLO SANDPOINT	Hudson's Shoes Bancroft's Bootery	HAGERSTOWN POCONO CITY	Eyerly's, Inc. Bate Shoe Store	CLIFTON CRAWFORD	Marchant's Shoes Crawford's	KINOSTON KINOSTON	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
ARKANSAS		ILLINOIS		MASSACHUSETTS		NEW JERSEY		NORTH CAROLINA		RHODE ISLAND		WISCONSIN	
BENTON CONWAY	Sherman's Shoes Monday-Fowler Shoes	AURORA CAIRO	Schenck's Marcher Shoe Store	ART. HIGTON ATLANTIC CITY	Alison's Shoes Coughlin's	BERNARDSVILLE BLOOMFIELD	Marchant's Shoes Crawford's	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
FAYETTEVILLE MAGNOLIA	Hunt Imperial Shoe Store	CENTRALIA CHARLESTON	McKay's Shoe Store O'Connor & Goldberg	BROCKTON CH. COFFEY	Baker Bros. Shoes, Inc. Paul's Inc.	CALDWELL CLIFTON	Scenic Shoe Fitters Marchant's Shoes	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
SPRINGDALE STUTTGART	Lightly's Dept. Store Bark Jones Co.	CHICAGO HEIGHTS DANVILLE	O'Connor & Goldberg Barker's Shoe Store	CH. COFFEY CH. COFFEY	Baker Bros. Shoes, Inc. Paul's Inc.	CALDWELL CLIFTON	Scenic Shoe Fitters Marchant's Shoes	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
TEXARKANA	Bark Jones Co. Bark Jones Co.	DECATUR ELMHURST	Barker's Shoe Store Black & Ruhl Co.	CH. COFFEY CH. COFFEY	Baker Bros. Shoes, Inc. Paul's Inc.	CALDWELL CLIFTON	Scenic Shoe Fitters Marchant's Shoes	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
CALIFORNIA		ILLINOIS		MASSACHUSETTS		NEW JERSEY		NORTH CAROLINA		RHODE ISLAND		WISCONSIN	
ALHAMBRA ARCATA	Hyde's Shoes Minshaw's	DECATUR ELMHURST	Barker's Shoe Store Black & Ruhl Co.	CH. COFFEY CH. COFFEY	Baker Bros. Shoes, Inc. Paul's Inc.	CALDWELL CLIFTON	Scenic Shoe Fitters Marchant's Shoes	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store
BERKELEY EUREKA	Blackman's Daly's	DECATUR ELMHURST	Barker's Shoe Store Black & Ruhl Co.	CH. COFFEY CH. COFFEY	Baker Bros. Shoes, Inc. Paul's Inc.	CALDWELL CLIFTON	Scenic Shoe Fitters Marchant's Shoes	HICKORY HIGH POINT	John B. Wray & Co. Powell's Shoes	ANDERSON BARNWELL	Wick's Shoe Store Lipsitz Dept. Store	RICE LAKE SHAWANAW	Sockless Shoe Co. Schneider's Shoe Store

CONNECTICUT (cont'd)		INDIANA (cont'd)		MINNESOTA (cont'd)		NEW YORK (cont'd)		OHIO (cont'd)		TEXAS (cont'd)		ONTARIO (cont'd)	
MANCHSTER	Shoer Bros. Shoes	INDIANAPOLIS	L. Sharron & Co.	MANKATO	Westback & Shoe Store	BROOKLYN (cont'd)	Pauli Trad Shoe Shop	PIQUA	Marlon's Shoes	PORT ARTHUR	Bluewin's	BRANTFORD	Art Blich & Shoes
MERIDEN	Stylen Shoe Sales		M. P. Wason & Co.	M. NEAPOLIS	Robert's Shoe Store		Press Shoes	ST. MARTY'S	San Angelo	SAN ANGELO	Barnes & Company	BROCKVILLE	Art Mayers Shoes
MIDDLETOWN	Wrubel's	LA PORTE	Joseph's Shoes	Rothschild-Young	Quinn Co. 2 stores	BROOKLYN	Pod. Slide Shoes	STICKLEY	Whelan Dept. Store	SAN ANTONIO	The Vogue	CHATHAM	Clements Shoe Store
MYSTIC	William Bondell	LOGANSPORT	Combs Shoe Store	NEW ULM	John W. Thomas Co.		Shoos By De Vito	STUBENVILLE	The Hub Dept. Store		Wohn & Marx	COLL. NOWOOD	
NAUGATUCK	Green's	MADISON	Huntz Shoe Store	ROCHESTER	Stander's Shoe Store		Pace Rite Shoes	TOLEDO	Lynn Store 2 stores	SHERMAN	Colman's Shoe Store		McIntosh's Shoe Store
NEW BRITAIN	Vogue Shoes	MARION	C. & M. Shoe Co.	ST. JAMES	G. & B. Shoe Store		St. George Bootery		Plunket Bros.	SHERMAN SPRING	Leimer's	CORNWALL	Nymen's Shoe Store
NEW HAVEN	Gentle Roberts Shoes (2 stores)	MISHAWAKA	Fulton's Shoe Store	ST. PAUL	The Emporium		Shoe Shop	TROY	Clark's Shoe	TAY OR	Zebaloff's Shoes	DUNMUIR	Walt A. Coon's Fine Footwear (2 stores)
	Sharlentberg's	MUSKOGEE	Mait's Shoe Store		Rothschild-Young Quinn Co.	BUFFALO	J. M. Adam & Co.	WARTON	Greenwald's	WACO	Candorale Shopper Shop	GALT	Brace Laskie & Son Ltd.
NEW LONDON	Hayes	PERU	Senger Dry Goods Co.	STILLWATER	Kothmann		L. L. Berger's Inc. (all stores)	YOUNGSTOWN	Richard's Shoe Store	UTAH		HAMILTON	Burt's Shoes Ltd. (2 stores)
NORWALK	Arnold's Boot Shop	PORTLAND	Walter's	THIEF RIVER FALLS	The Fashion Shoe	CANANDAIGUA	Dowdson's		Strouss-Murberg Co.	LOGAN	Beck's Shoes		Robt. Wilson Shoe Store Ltd.
NORWICH	Richardson's Shoes	RENSSELAER	Peasington's Shoes	VIRGINIA	The Whinesole Store	COOPERSTOWN	Derrich's Shoes			ODGEN	Swanson's Shoes	KAPUSNAS	MG Perkin Ltd. (2 stores)
OLD SAYBROOK	Morley's Shoes	RHUMOND	Risley's	W. HONA	Baker's Shoes	CORTLAND	George Barker Shoe Store	ADA	Shoe's Shoes	PROVO	Frederick's Shoes	KINGSTON	Seymour's Shoes (2 stores)
STAMFORD	Barry's Shoes	ROCHESTER	Taylor's Shoe Store	WORTHINGTON	Schmidt's Shoe Store		The Bootery	ADAMORE	Hill Shoes	SALT LAKE CITY	Keith O'Brien (2 stores)	LONDON	Sutcliffe London Ltd.
WATERBURY	Grove's	SEYMOUR	B. & W. Shoe Store			ELMIRA	The Best Company	NORMAN	Marion Clothing, Inc.		McKendrick's, Inc.	NEW L'ISKEARD	Glen Watton Quality Footwear
WETHERSFIELD	Shoe Centre	SHELBYVILLE	Hob Shoe Store			FLORENCE	Abrahamson Dept. Store	SAPULPA	Haynes Shoe Store	VIRGINIA		OTTAWA	Dick's Shoes Rec'd
WILLIAMSTON	Brace's Shoes	SOUTH BEND	Benton's Male Shoe Dept.			FRESH MEADOWS	Isa Murray Shoe Shop	SEMINOLE	Pratt Shoe Co.			OTTAWA	Davidson's Shoes
			Robertson's			GARDEN CITY	E. & B. Shoes	SHAWNEE	F. & W. Shoes, Inc.			OWEN SOUND	Whitman's Shoe Store
DELAWARE		TERRE HAUTE	Barker's Shoe Store			GENEVA	M. E. Brown & Company	WOODWARD				PENBROKE	Wallace Shoe Store
NEWARK	Pinick's Shoes	VINCENNES	Strathun-Masly Inc.			GOVERNOUR	Conwell Shoe Store			ALEXANDRIA	Rembrandt's Shoes (2 stores)	PETERBORO	Harry G. Silver
WILMINGTON	Bendheim's (2 stores)	WABASH	Benjamin & Wolf			HAMBURG	Carbone's Shoe Store	CONVALLIS	Nolan's Department Store	CHARLOTTEVILLE	W. J. Keller Co.	PORT ARTHUR	McNulty's Ltd.
DISTRICT OF COLUMBIA		WARSAW	Central Shoe Co.			HEMPSTEAD	Reit's Shoes		Whit's Department Store	CHASE CITY	Chase City Dept. Store	PORT CREDIT	St. MacMillan Shoes
WASHINGTON D. C.						KIRKWOOD	Trond Rite Shoes		LYNCBURG	COVINGTON	The Shoe Box	PORT HOPE	Goulet's Fine Footwear
						KIRKWOOD	French's Shoe Store		LYNCBURG	BANY LEE	Thammar's	RENEW	Soot's Shoe Store
FLORIDA						KIRKWOOD	French's Shoe Store		LYNCBURG	CHARLOTTEVILLE	W. J. Keller Co.	RENEW	Soot's Shoe Store
BRADENTON	Harry Butler's Bootery					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
CLEARWATER	Butland's					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
COCOA	Nelson's Shoes					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
CORAL GABLES	Danville's					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
FT. RYAN	McCoy's Shoes					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
FT. PIERCE	Sack's of Hollywood					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
GAINESVILLE	Widow's					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
JACKSONVILLE	Furchgott's					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
	Larry's Shoe Store					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store
LAKE WORTH	Asky's Bootery					KIRKWOOD	French's Shoe Store		LYNCBURG	CHASE CITY	Chase City Dept. Store	RENEW	Soot's Shoe Store

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Perfect feminine gift idea...33 crown-set sparkling stones surround the dial. And, of course, it has famous Westclox Baby Ben quality features: quiet tick, 2-way alarm and 24-hour luminous dial. Pink or turquoise with matching stones. \$9.95.


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THE GOLDEN
ANNIVERSARY YEAR
OF BIG BEN!



Straight Role for Noted Funnymen

The gentleman studying a road map of France with the saddened air of a schoolmaster whose students are not doing well in geography is a familiar movie actor in an unfamiliar guise. Americans love him prodigiously as a merry clown who has romped, danced and sung his way into their hearts. Now he is clad in black and distinguished dignity to play the role of Me in Columbia Picture's wryly funny film *Me and the Colonel*.

Me, S. L. Jacobowsky, is a mild, philosophical little Jew who has been desperately running away from Hitler for seven years. Hitler's Panzer troops almost catch him in Paris. By this time, however, he is an expert fugitive. He knows how to ply passports, flummox the French and even glue up grim Germans. But he is almost undone by a romantic Polish colonel who is trying to live by Don Quixote's chivalrous rules in a brutish world.

CONTINUED

Gilbey's Vodka



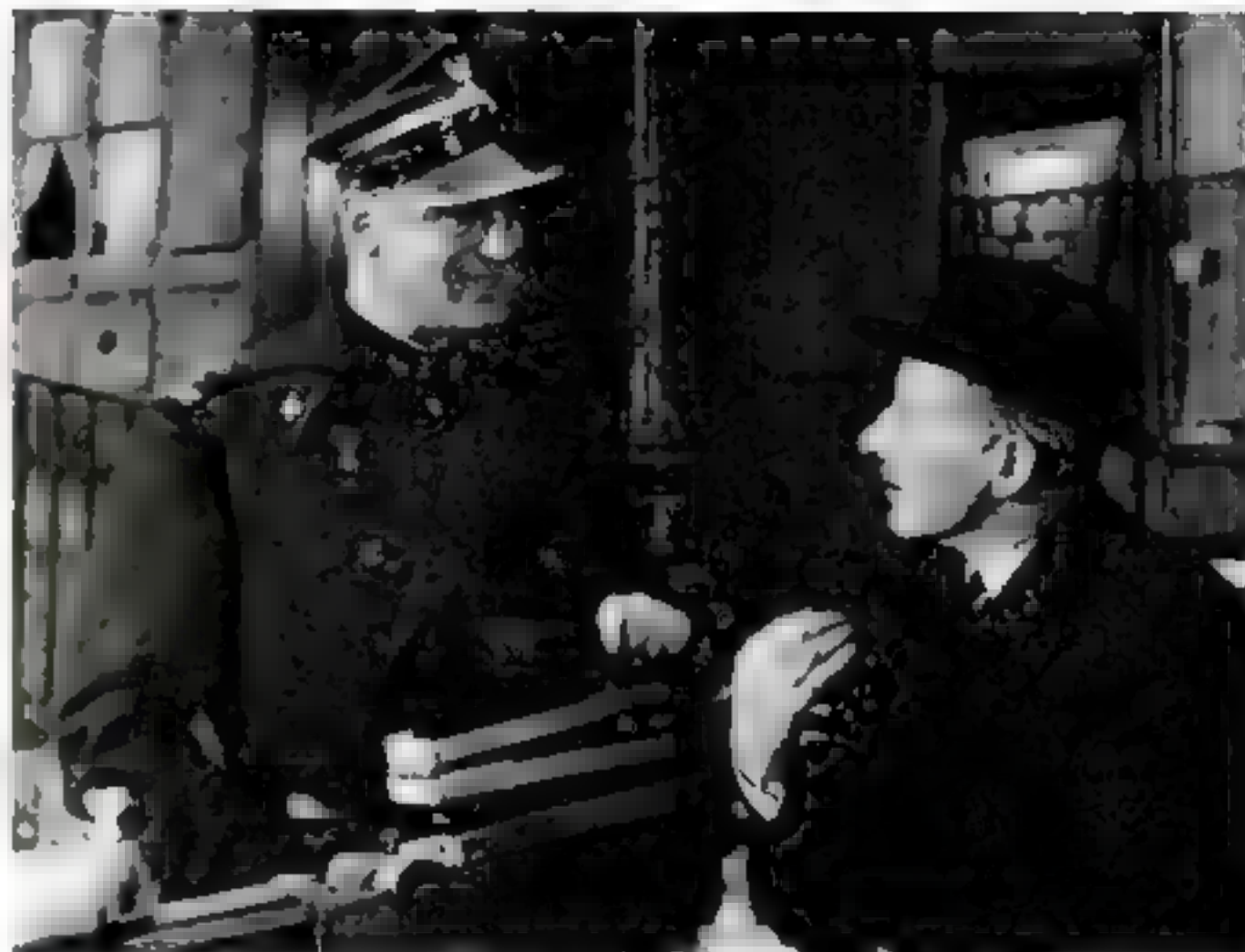
...the clear, smooth "heart" of vodka!

Gilbey's makes a difference in vodka—by selecting only the "heart" of each vodka distillation, the clearest, smoothest part. And this means a *smooth* difference to all your vodka drinks.

Vodka 80 & 100 Proof. Distilled From 100% Grain. W. & A. Gilbey, Ltd., Cincinnati, Ohio. Distributed By National Distillers Products Company.



STRAIGHT ROLE CONTINUED



DANNY KAYE AS JACOBOWSKY argues with colonel (Curt Jurgens) who scorns his lowly companion. But he needs Jacobowsky's auto to rescue his girl. He insists on going toward German lines instead of south to safety.



A DUEL IN CASTLE between the furious colonel and the frightened Jacobowsky starts in an argument over a girl and ends at the brandy barrel in the cellar with a drunken speech by the colonel who prefers death to dishonor.



DASH FOR SAFETY is made on a bicycle built for two after Jacobowsky has saved colonel from the Germans by guile and the colonel has rescued Jacobowsky from the Gestapo by sheer bravado. A British sub takes them off.

LOOK UP TO THE DC-8!

The DC-8, now in flight, will soon carry you to new heights of luxurious air travel.

DC-8 introduces you to Her Serene Highness—the Stratosphere



Beneath the outstretched wings of the DC-8, the world falls swiftly below. The sky you climb into turns from blue to purple, and as you reach new heights, there comes over you a sense of serenity you've never known before.

Cradled in your pressurized cabin in the Douglas Jetliner eight miles high, with the sun and moon your neighbors, you gaze down on the toylike towns and peaks and waters of the world. Tranquilly suspend-

ed in the clear quiet of the stratosphere, you experience no sense of speed, no vibration, no engine's roar . . . nothing but a beautiful peace of mind and body.

But the DC-8 offers you more than speed and serenity. It brings you a family history of experience, dependability and comfort unmatched in the annals of flight. It is this — *and more*—which makes passengers and pilots look up to Douglas. You'll sense it all when you take your first flight in the fabulous . . .

DOUGLAS DC-8 JETLINER

Built by the most respected name in aviation

These famous air lines already have purchased the DC-8: ALITALIA-Linee Aeree Italiane • DELTA AIR LINES • EASTERN AIR LINES • JAPAN AIR LINES • KLM ROYAL DUTCH AIR LINES
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Furniture design patent pending

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Kroehler Plus-Built® Upholstered Furniture Gives You These Vital

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3. Cone-Coiled Spring Construction
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5. Spring-Edge Platform
6. Synchronized Spring or Airfoam Cushions
7. Formula-Blended Cotton Padding
8. Auto-Press Upholstery
9. Uni-Lock Assembly Plates
10. Kiln-Dried Hardwoods

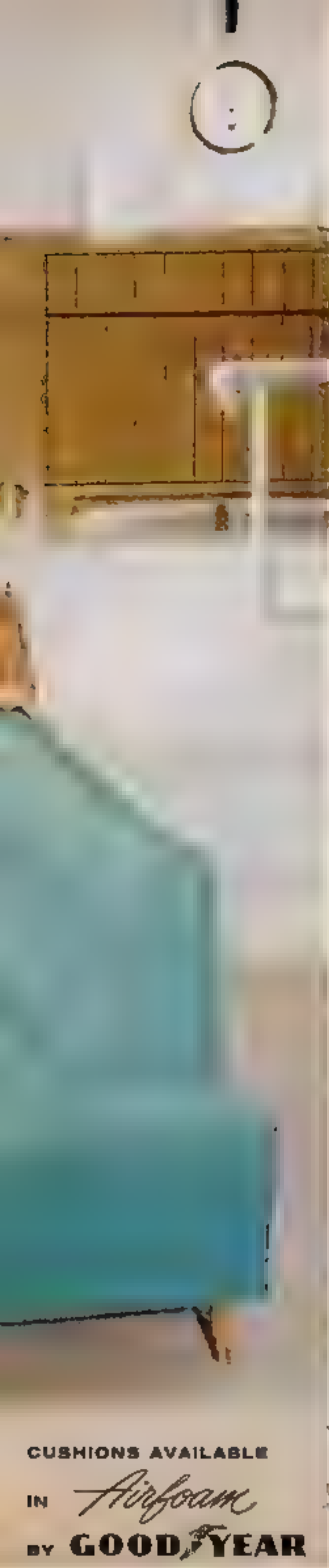
Presenting the SMARTSET '59 GROUP...

Fashion-related living room, dining room, bedroom furniture and tables designed to go together. Or you can pick and choose the items you want to go with your present home furnishings. When you buy Kroehler furniture you can be confident...

Be Confident of Quality! When you choose Kroehler furniture, you buy for the years ahead. Lasting satisfaction is assured by the vital "Hidden Qualities" you get only with Kroehler furniture!

Be Confident of Comfort! Kroehler furniture is scientifically tested for truly comfortable living. Stretch out on a Kroehler sofa and *feel* the comforting difference! Relax in a Kroehler chair and *see* what solid comfort really means!

Be Confident of Styling and Value! Designed to be admired, Kroehler furniture will stay in style with the passing years. Designed, too, to be "friendly" with your present furniture. From *every* point of view, you get more for your money when you look for the brand name of Kroehler, world's largest furniture manufacturer.



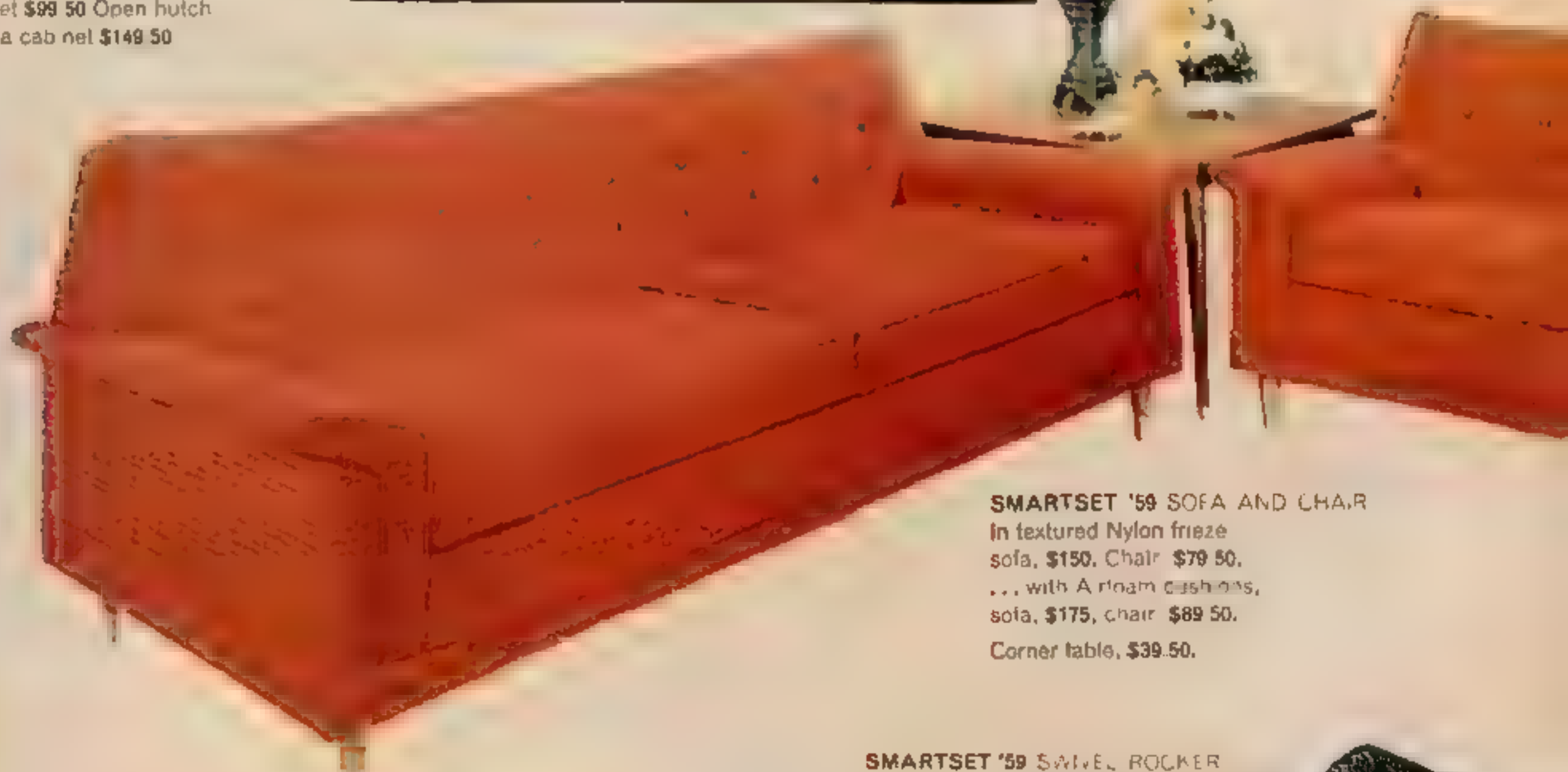
SMARTSET '59 BEDROOM
Bookcase bed, double dresser
and mirror, complete \$189.50
Chest \$69.50 Night table \$39.50

*Dining and bedroom furniture and living room tables shown in
Saddle Walnut Finish. Also available in Pongee Walnut Finish.*

**Kroehler Permanized Dining Room, Bedroom
Furniture and Living Room Tables
Give You These Vital
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4. Fully dust proofed drawer cases.
5. Quiet Glide drawers, dovetailed, center-guided
6. Plate glass tops guaranteed against defects for 5 years.

SMARTSET '59 DINING ROOM
Table \$74.50
Side chairs \$17.50 each
Buffet \$99.50 Open hutch
china cabinet \$149.50



SMARTSET '59 SOFA AND CHAIR
In textured Nylon frieze
sofa, \$150. Chair \$79.50.
... with Airfoam cushions,
sofa, \$175, chair \$89.50.
Corner table, \$39.50.

SMARTSET '59 SWIVEL ROCKER
as shown in pebble texture frieze \$59.50.

**SMARTSET '59
SLEEP-or-LOUNGE SOFA**
same style as sofa and chair



Extra-length full size double bed with a deep
Innerspring mattress. Before you decide on
any dual-purpose sofa, by all means see the
famous "Sofa with a Secret" \$225
with Airfoam cushions \$250.



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IN *Airfoam*
BY **GOOD YEAR****

KROEHLER

SMARTSET '59 LIVING ROOM FURNITURE

Sectional sofa in bouclé textured fabric
Choice of either end or curved
corner section, \$95 each
with Airfoam cushions, \$110 each
Armless center section, \$59.50
with Airfoam cushions, \$69.50.

Low-back lounge chair, in textured Nylon frieze,
with Airfoam seat and back cushions, \$119.50

Round cocktail table \$39.50. End table, \$29.50.

*Prices slightly higher in some areas.
Convenient terms are offered by most Kroehler dealers.*

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Be confident with **KROEHLER**
 confidently cushioned
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It is natural for Kroehler to cushion with AIRFOAM.

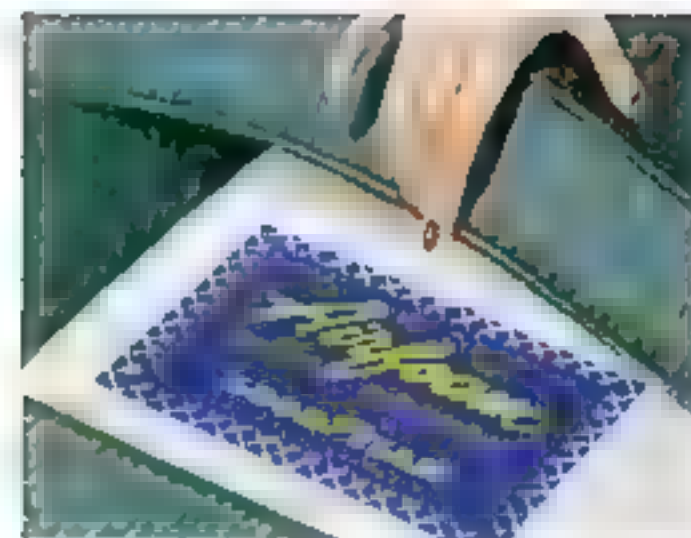
For AIRFOAM is the choice of furniture designers, craftsmen and manufacturers of highest repute.

AIRFOAM assures comfort beyond compare—and through the years. AIRFOAM adds smartness and cleaner lines. AIRFOAM holds its lines — saves care, repair and money. AIRFOAM is the world's finest, most modern, cushioning

So this Kroehler furniture proudly wears the royal blue AIRFOAM label. It's your added assurance to be confident with Kroehler — *confidently* cushioned with AIRFOAM! Goodyear, Foam Products Division, Akron 16, Ohio.

Get that AIRFOAM feeling! Revel in the luxurious resiliency found in no other cushioning. Enjoy extra years of new appearance, superlative comfort and easiest care. AIRFOAM is made of finest quality latex and billions of bubbles of fresh air — molded — tailored to fit — nothing to sag, snag, break down or come apart!

Airfoam—T 34. The Goodyear Tire & Rubber Company, Akron, Ohio



Look for this royal blue label—on y AIRFOAM cushioned furniture can proud y wear it.



DON'T TAKE "FOAM RUBBER" FOR AN ANSWER, INSIST ON

Airfoam

MADE ONLY BY

GOODYEAR

THE WORLD'S FINEST, MOST MODERN CUSHIONING

'This is a tough league, boy, even with a face guard . . .'

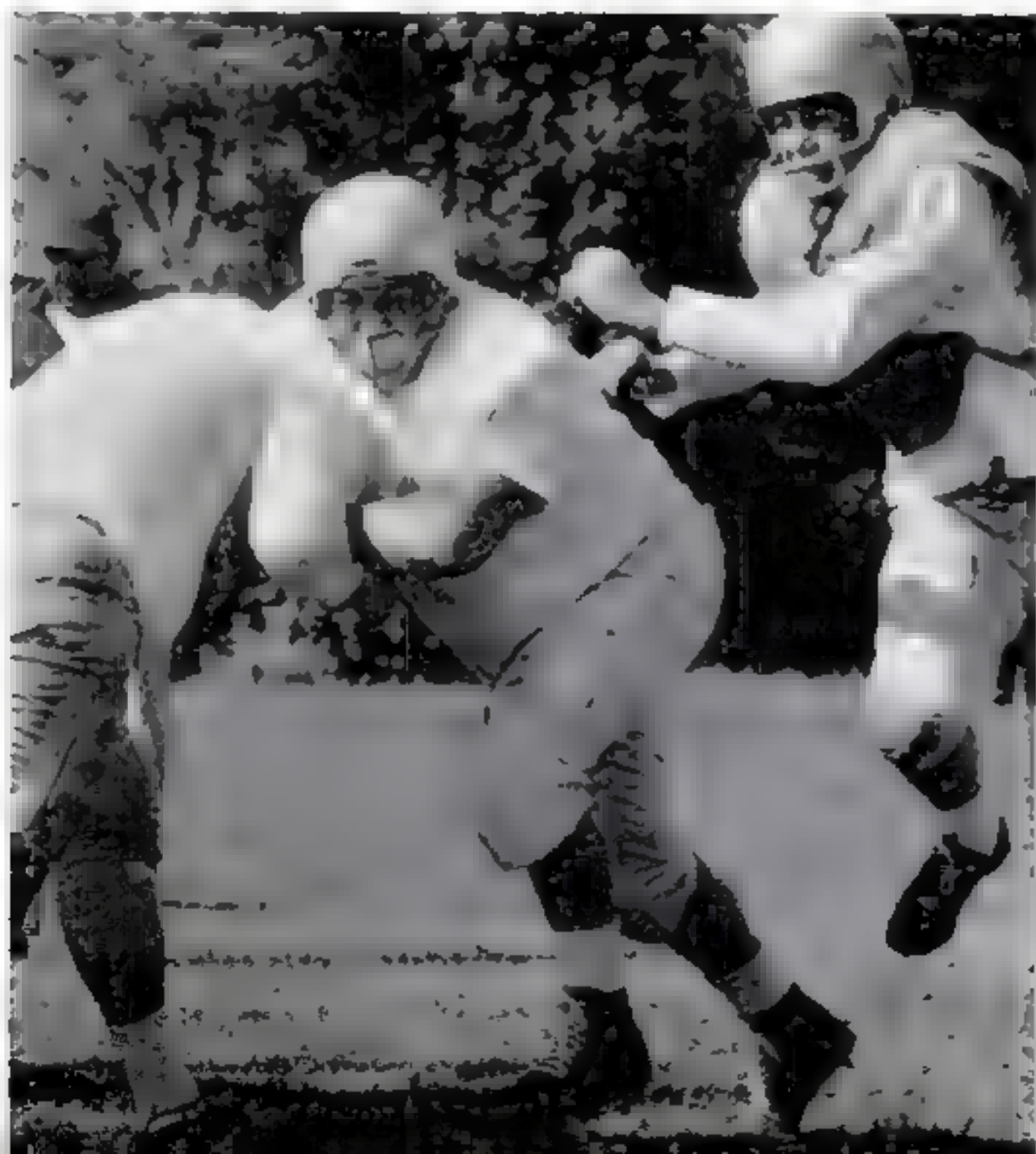


PRO HAZING FOR A ROOKIE

After a few hours in camp as a rookie with Detroit's pro football Lions, Alex Karras, the terror of college linemen last year at Iowa, was a pretty subdued boy. He took his cue from one of his new playmates, Stan Campbell (*above, right*) who waved the bridge that replaces his knocked-out teeth as reminder that pros are rough. Out on the field the ungentle Lions, ganging up on Alex, pursued their practice of making a rookie's first few weeks miserable.

The Lions go further than most clubs and make college-type hazing a part of training (*next page*). Each rookie becomes a flunky for a veteran. They run fool's errands and supply entertainment for the real pros. After a week of bruises and indignities even the knocks in an exhibition game against the Browns came as a welcome relief to the rookies.

TASTE OF TOUGH JOB is given Karras (*center*) as he takes veteran's hard charge during scrimmage. "They sure have a lot more energy here," Alex said.



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Sure pays to use a Vise-Grip!
Makes you handy as a "pro".
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In monthly contests (ending in October) we are awarding prizes of \$200, \$100 and \$50 to folks sending in the longest practical lists of uses they've found for Vise-Grip, the world's most useful hand tool. (The winners' favorite tool dealers win the same amount.) Simply write your list on a plain sheet of paper with your name and address, and mail to address below.

A whole tool kit by itself—that's Vise-Grip! Super-pliers, all-purpose wrench, clamp, and wire cutter. See the new Vise-Grip with "Easy Release" at your tool dealer's—7" and 10", only \$2.15 to \$2.95. Enter now, and have fun!

VISE-GRIP "A whole tool kit"

NOTE: Decision of judges is final. Winners announced on request. All entries become property of Petersen Mfg. Co., Inc. in event of tie full amount of prize tied for will be awarded each tying contestant. This contest open only to residents of U.S.A. and territories possessions. Subject to federal, state and local regulations.

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FIRST NATIONAL CITY BANK

**TRAVELERS
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FULL REFUND IF LOST OR STOLEN

GUARANTEED BY THE FIRST NATIONAL CITY BANK OF NEW YORK



SHOE-SHINE DUTY comes after team practice for Alex Karras (left) and rookie Wayne Walker, who were ordered

to clean shoes for Tom Tracy and Stan Campbell (foreground). Alex also had to serve Tracy breakfast in bed.



SINGING FOR DINNER, Karras stands on table at Cranbrook dining hall. In required pose with his hand over his

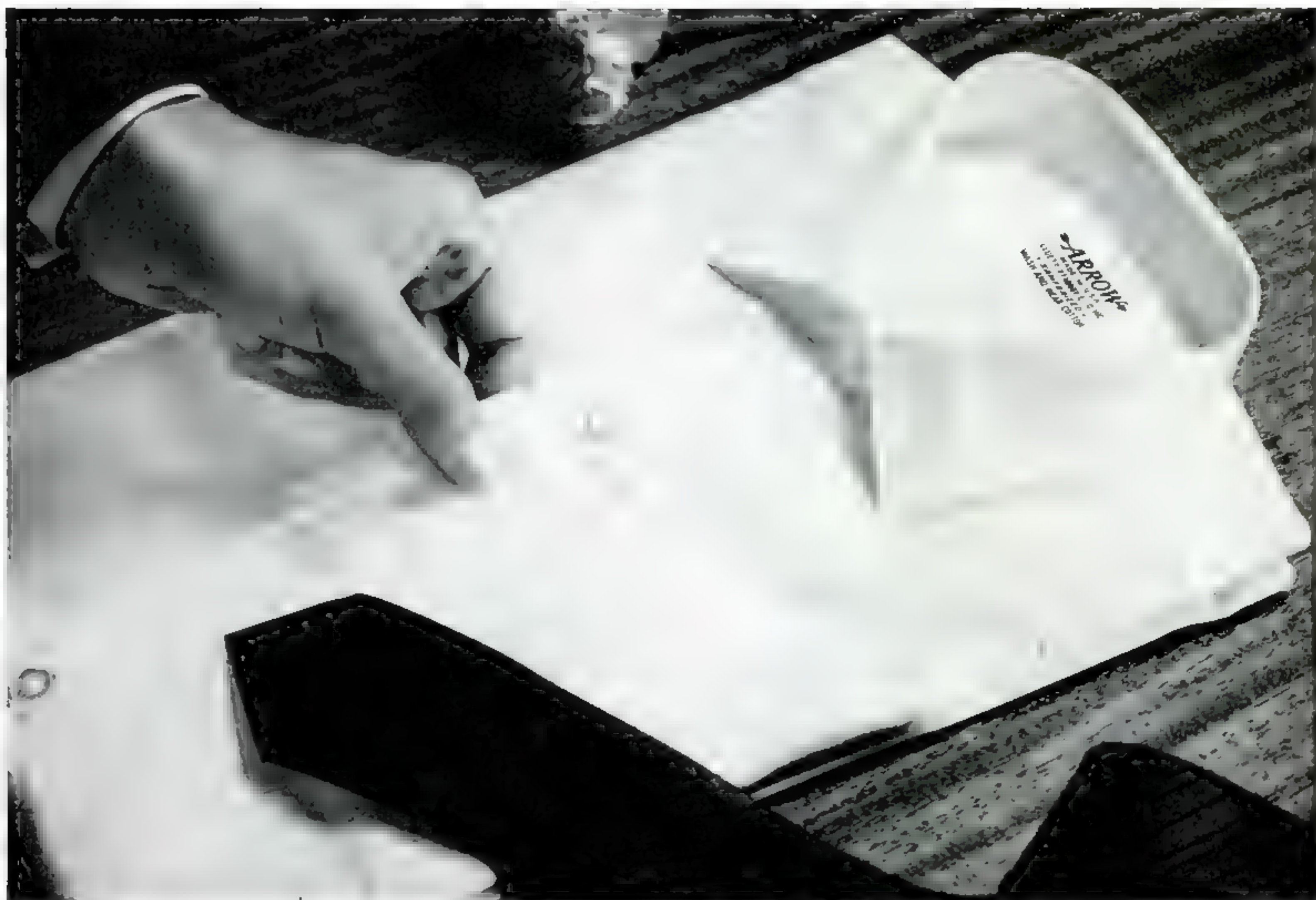
heart, he sang a U. of Iowa fight song. Rookies try to get out of singing for vets by coming to the dining hall early.



FLOWERS FOR VETS are brought by Karras (left) and Walker. Team captain had sent them out saying, "It's so

cheerless here we must fix this room." Now Bobby Layne (seated, foreground) remarks, "Oh Alex, isn't that sweet!"

CONTINUED



Arrow Whip, now \$4.00. Other styles \$4.00 and \$5.00

Wash and Wear News of the Year!

Famous Arrow fashion, famous Arrow fit, famous Arrow quality in 100% cotton wash and wear at a new low price...now only \$4.00!

Only one shirtmaker in the world could do it!

Arrow presents the fashion, the fit, the fabric men prefer 5-to-1 — with convenience of wash and wear — *at a new low price.*

And it's wash and wear you can trust! "Sanforized" labeled, too, for lasting fit.

This is a 100% combed-cotton broadcloth shirt you can

wash by hand, wash in your machine, or send to your commercial laundry. The world's widest selection of collar styles. New convertible cuffs you can button or use with links.

Here is the greatest top-quality wash and wear shirt your money can buy. Hurry to your favorite store and bring home a box of these Arrow "Time-Savers" today.

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Men prefer Arrow 5-to-1 because of perfect collar fit, shoulder line contour, Mitoga tailoring to

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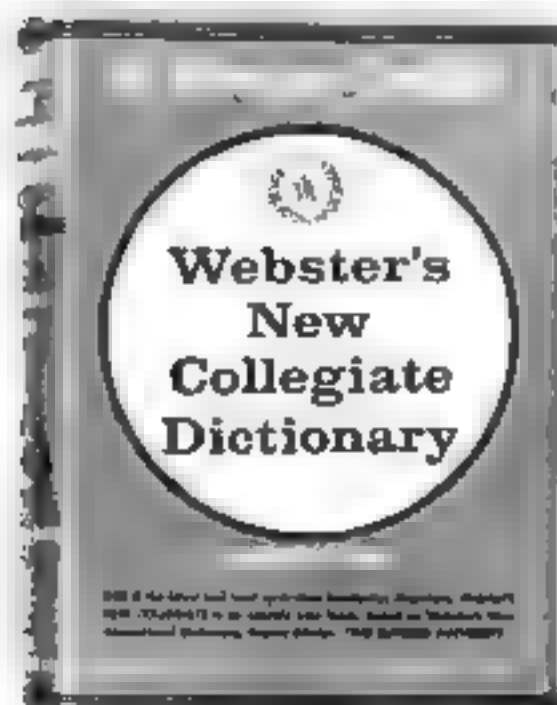


How to help your teen-agers start the school year right

Recent national surveys are stressing the necessity of a good vocabulary in achieving better grades and learning more effectively. As a parent, you can help the high-school and college students in your family to start the school year right by supplying them with an up-to-date copy of Webster's New Collegiate Dictionary.

This is the desk-size Merriam-Webster that is required or recommended by nearly every school and college. It is the one dictionary with definitions so precise and complete that correct understanding of every word is assured. Also, it is the one "schoolbook" that will continue to give valuable service later in adult life.

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Some "Webster's" do not even include the binomial genus and species terms essential for high-school and college students. To be sure of the accuracy, up-to-dateness, and well-rounded balance a student must have in a dictionary, look for the word *Merriam*. The only company specializing in dictionaries — publishers of the famous unabridged Webster's New International Dictionary, Second Edition. G. & C. Merriam Company, Springfield 2, Mass. Adv. Copyright by G. & C. Merriam Co.

PRO HAZING CONTINUED



COACH'S CRITICISM starts for Alex when Buster Ramsey complains about his stance. "Get lower," barked Ramsey and told him to angle his charge more.



RUNNING PUNISHMENT is given Karras for horsing around with others during practice. Sprints also helped Alex cut down from his 253 pounds.



COATS BY DOBY ORIGINALS STYLED BY DOOLEY

Wool's New Marathon Coats ...made for the busiest girls in town

Skating, skipping—busy as bees—that's how little girls are. Life's a breathless whirl of activity—simply exhausting, my dear, for anything with less fortitude than wool.

For, although wool's well-bred tailoring makes the most elegant coat to ever come out in pigtail society, there is just nothing to match this marathon fabric for hard, non-stop wear. After a stunt in the playground, wool brushes clean. Its tireless spring-back shakes off muck, even resists tears. And when daughter shoots up like Jack's

beanstalk, wool hides let-out hems and seams. But perhaps the most practical beauty of all is the price. These marathon coats in fine American-made woolsens and worsteds are all under \$45.

See them at Lord & Taylor, all stores; Rich's, Atlanta; Miller & Rhoads, Richmond; Shillito's, Cincinnati; Dayton's, Minneapolis; Milwaukee; Boston Store, Milwaukee; I. Magnin, California and Seattle; Meier & Frank Co., Portland and Salem, Oregon. For further information, write Wool, Dept. L-3, 420 Lexington Ave., NYC 17.

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please children
and their
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Now RCA Victor puts the experience that built



Jet-tested portables

Sophisticate Deluxe, 156 sq. in. picture (17PD907) \$199.95



"Wireless Wizard" electronic remote control

Swarthmore Deluxe, 262 sq. in. picture (21RD967) \$450.00

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Above you see just four among the dozens of reasons why this RCA Victor 10 Million Line will make TV history.

Here is a *complete* new line with the biggest advances in TV. Newest of the 10 million values that have made RCA Victor America's favorite ever since TV began! Just look . . .

Portable TV so powerful it pulled in a mirror-sharp picture, even while streaking through the stratosphere in a Boeing jetliner at 600 mph! **"Wireless Wizard"** electronic remote control—the surest, most accurate in TV. You turn

set on or off, select channel, control volume from your easychair.

"One-Set" electronic fine tuning. Set it once, just once. From then on you're "right" on every channel—no need to fool with fine tuning! **Color TV is performance-proved!** With purchase of RCA Victor Color TV you now get *free* 1-year warranty† on *all* parts and tubes.

Look at all the 10 Million Line. See fine cabinetry, rich woods and finishes. Hear Balanced Fidelity FM sound, TV's finest! See how keyed Automatic Gain Control improves

reception in difficult areas, how the new power-surge resistor lengthens tube life. Compare, feature for feature, dollar for dollar. You'll see RCA Victor means the most—by any measure.

†Including picture tube. Excluding labor.

RCA FACTORY SERVICE. Only RCA Victor TV owners can buy an RCA Victor Factory Service Contract for expert service and installation by RCA's own technicians in most TV areas. Mfrs. natly. advd. VHF last prices shown. Slightly higher for West, South. UHF opt., ext. Prices, specifications subject to change.

RCA VICTOR
RADIO CORPORATION OF AMERICA

*EVERY YEAR MORE PEOPLE BUY RCA VICTOR THAN ANY OTHER TV.

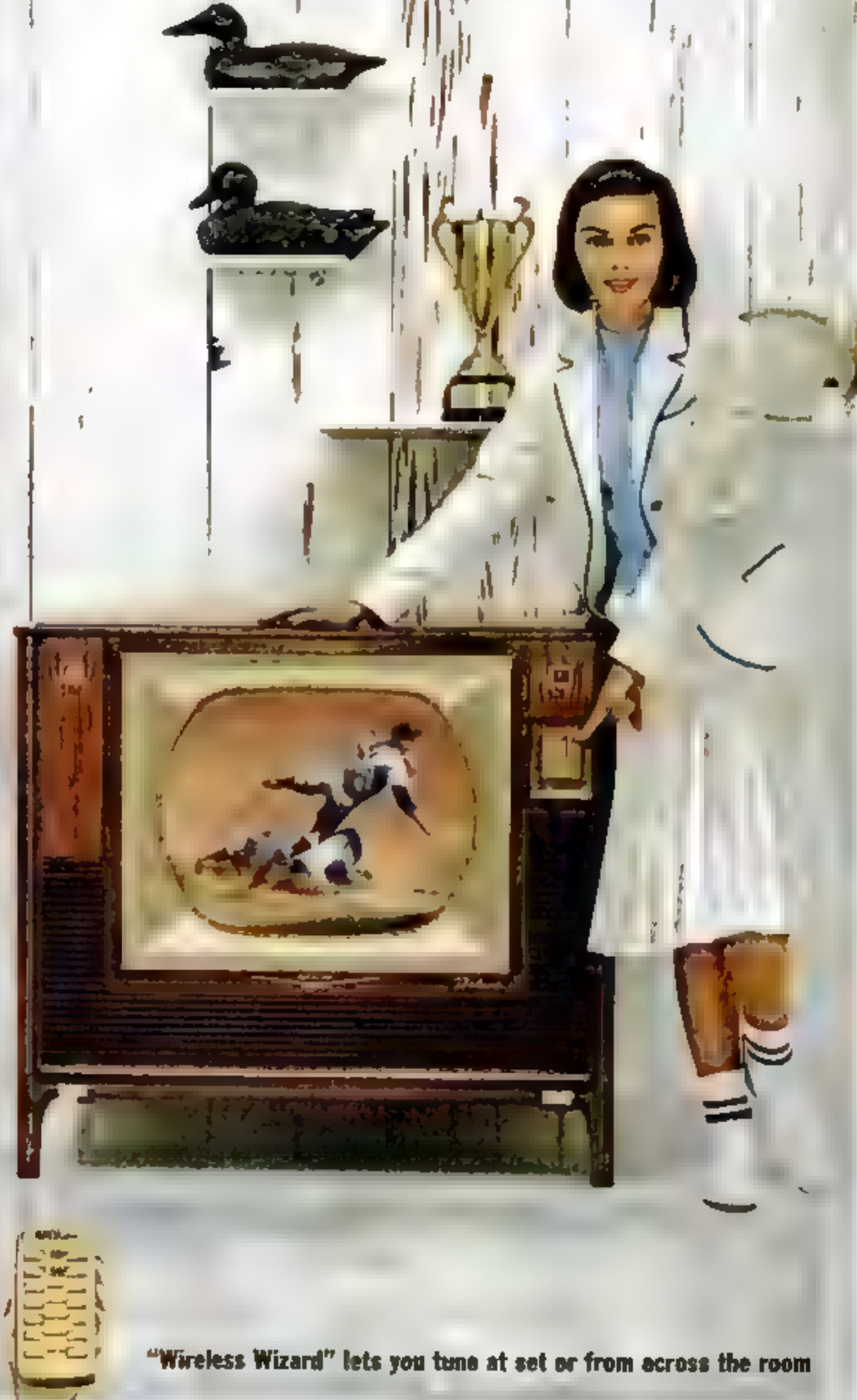
10 million TV sets* into TV's biggest advances!

"One-Set" electronic fine tuning



Farrell Deluxe, 262 sq. in. picture (21D919) \$259.95

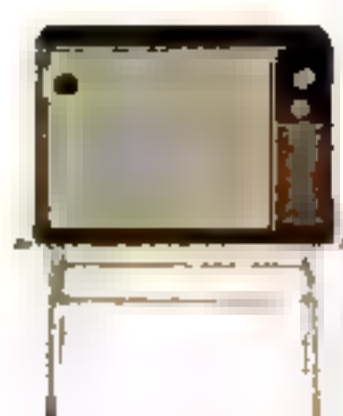
"Living Color" performance-proved



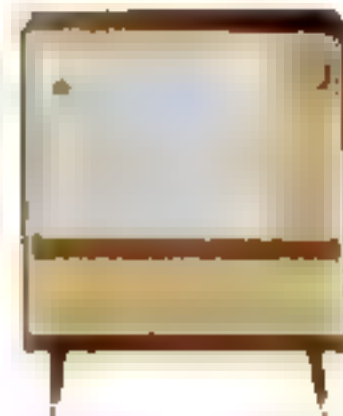
"Wireless Wizard" lets you tune at set or from across the room

Workington, 260 sq. in. picture (21RC899) \$1200.00

CELEBRATING OUR 10 MILLIONTH TV SET . . . THE EXTRA-VALUE ACHIEVEMENT SERIES



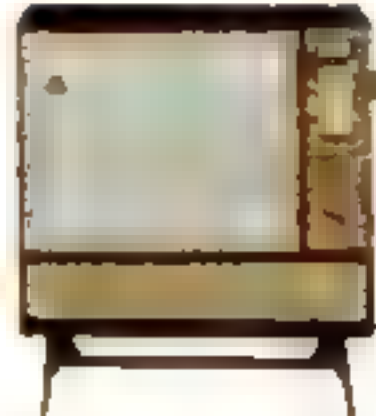
New electronic fine tuning! Barton, 262 sq. in. picture. (21T915) 199.95



Low-price luxury, brighter picture! Wayne, 262 sq. in. picture (21T922) \$249.95



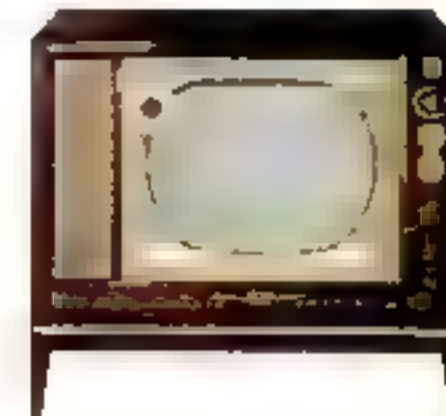
Extra power \$50 lower! Hillsdale, 262 sq. in. picture. (21T937) \$299.95



"Wireless Wizard" remote control! Lambert, 262 sq. in. picture. (21RT965) \$379.95



3-speaker lowboy! Kentwood with three fine furniture finishes. 262 sq. in. picture. (21D949) \$369.95



Advanced "Living Color"! Performance-proved Southbridge, 260 sq. in. picture. (21CD884) \$695.00

One side, '58 Corvette, cleaned *and* waxed



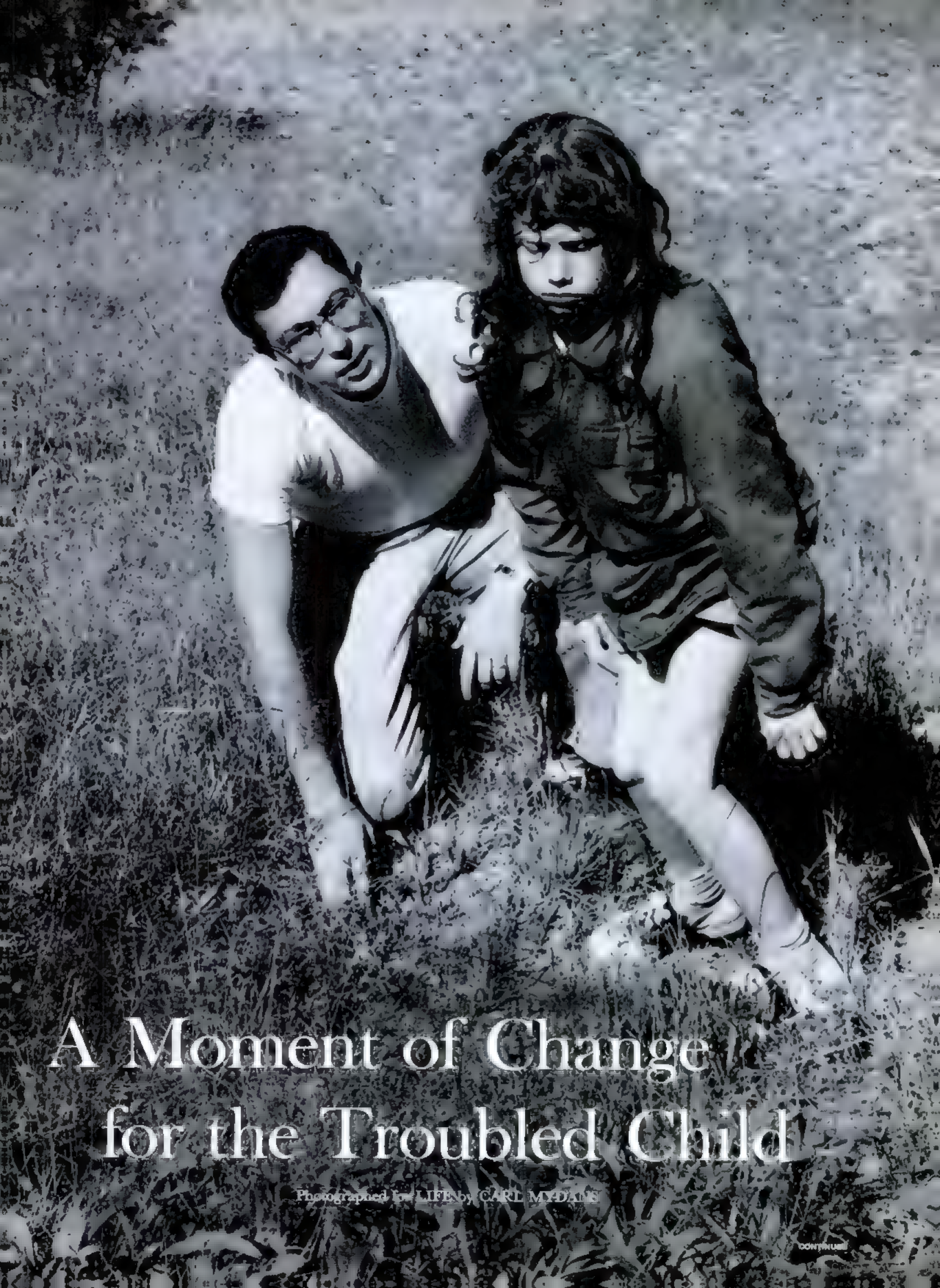
VISTA TIME: 18 minutes

DURATION: up to 6 months



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SIMONIZ MAKES IT



A Moment of Change for the Troubled Child

Photographed for LIFE by CARL MYDANS

CONTINUED



SECURE FEELING for campers in cabins is assured by lining bunks broadside against wall. Being up against a wall gives the children a greater

sense of security. Children are placed in cabins together according to problems. All shy boys with speech defects, for example, bunk in Cabin No. 1.



QUIET LUNCH is guaranteed by seating a counselor with every three children, one child at left, two at right. This way—if he is right handed—he

A Camp to Help the Disturbed

What soft word can comfort a miserable child after a tantrum and persuade her to join her playmates again? This delicate dilemma is particularly acute in the moment on the preceding page. The woebegone girl, far more fearful and confused than most children, has created scenes like this for years. Yet the instant shown here might help change everything.

Her revolt has taken place in a unique summer camp for emotionally disturbed children near Rhinebeck, N.Y., called Ramapo-Anchorage. The girl's comforter, a psychiatric case worker named Sidney Paul, talked tactfully and skilfully with her for a full half hour. Then she went back to play again, her worries about loss of face forgotten—and a big step taken toward a world of normalcy.

Ramapo-Anchorage accepts none but the disturbed—the one child in 10 afflicted with a serious emotional mix-up. The success of the nonsectarian camp as a pioneer has brought many child experts there to observe and to emulate. The camp and its sponsor, the Federation of Jewish Philanthropies, has allowed LIFE to take these rare pictures and present them now, when camps start to consider 1959 plans.

The camp has both a cadre of counselors and psychotherapists. "The psychiatric social worker in the city," explains Director Robert Thomases, "worries about a child from the top of his head to his chin, the welfare worker from his chin to his shoes. Here we work with the whole child." Some of the camp's principles are shown in these pages. To keep the children from worrying about making decisions, everything is prearranged from bunk allotment to matching cabin mates. The children play together—bully with bully, shy introvert with timid playmate. As they do, they reveal their emotional ills to the eyes of the watching staff.





can handle twice as much trouble with right hand. Plates are filled when campers come in to keep children from worrying about choosing what to eat.



WELL-POLICED SWIM, the activity considered potentially the most dangerous of the day since the children might intentionally or accidentally hurt

each other while romping in the water, is carefully watched over by a patrol of 15 staff members lined up at the ready around the edge of the camp waterfront.



SETTING LIMITS for an aggressive 16-year-old who has decided to test his coarseness by leaving cabin when he was told to stay in — staff case worker Herbert Streen convinces him rules will be enforced.

PAINTING FACES like masks — girls in disguise work on Counselor Michael (Mike) Kaderberg, an activity that lets them get away from themselves. Shy girl at left would only paint faces on hands.



A TANGLE OF TEMPERS confronts Camp Director Robert Thomases, a 41-year-old former Marine major who evolved camp's concept with the Jewish Board

of Guardians. Here he restrains a troublemaker who threw a wild tantrum when scolded. Boy in striped shirt is a "walker" on one of his endless, pointless tours

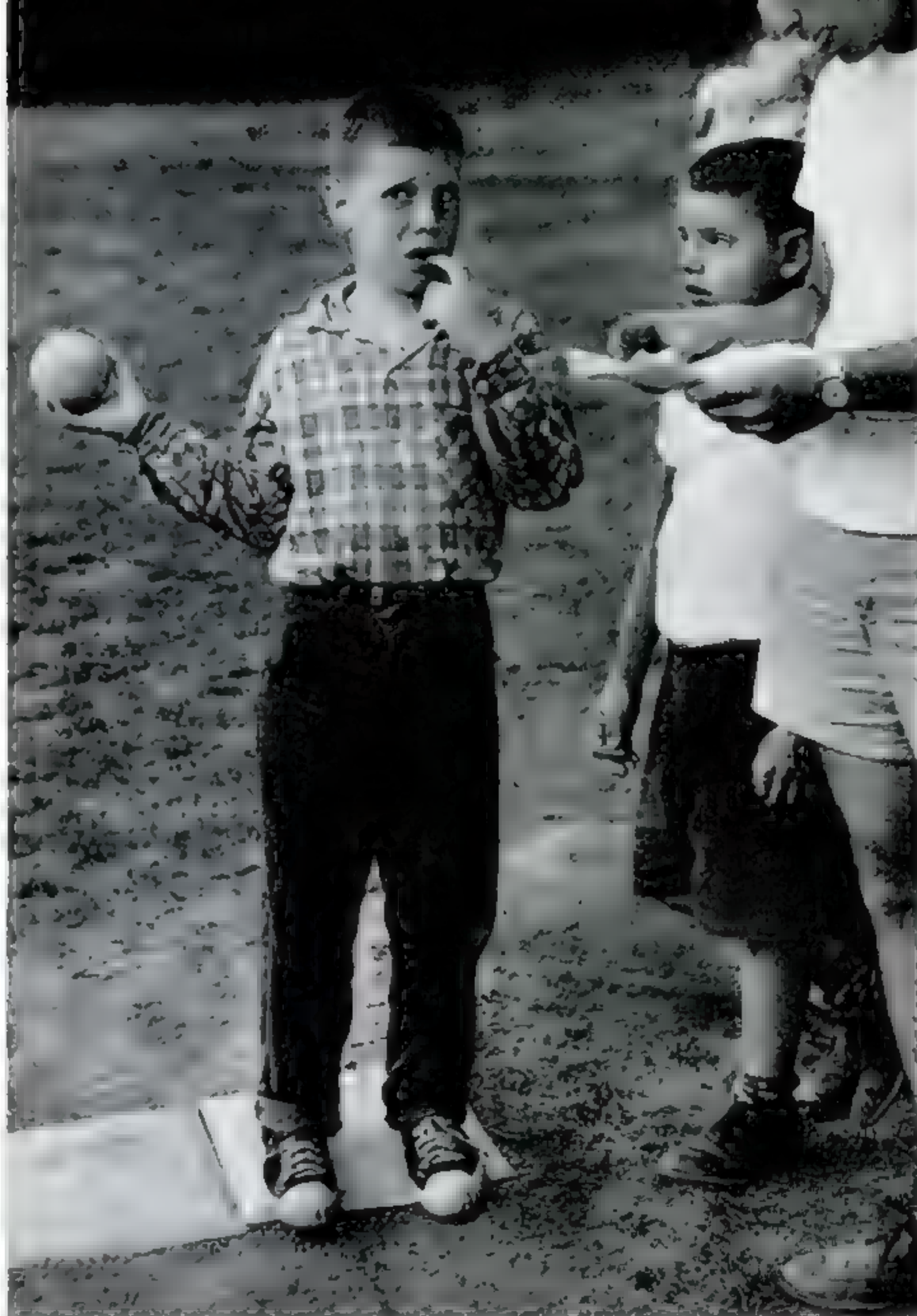


WALKER, who is also on opposite page, roams in fantasy world, rarely can be persuaded to play.

Walkers and Teasers

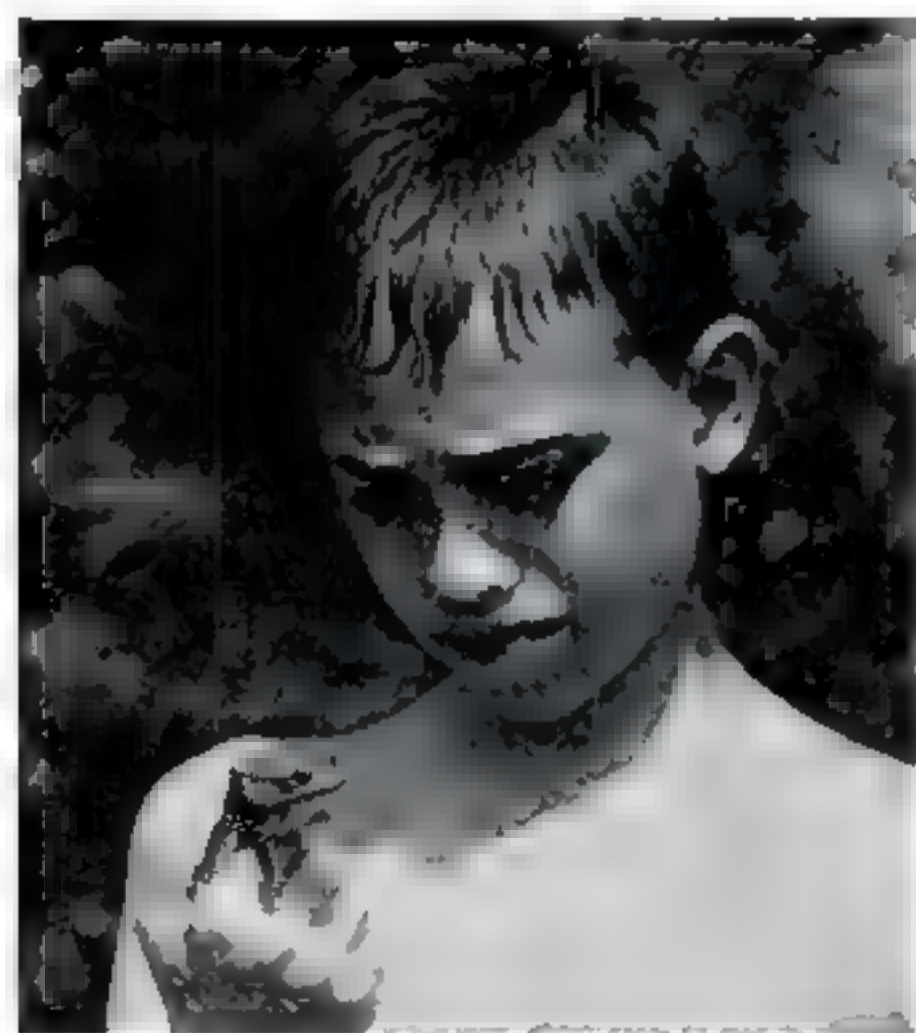
Ramapo-Anchorage is actually twin camps, with boys staying at Ramapo and girls at Anchorage. In the morning campers—some varying types are shown here—are urged into specific group activities according to their different troubles. Passive, shy boys, for example, are given “tough” tasks like woodwork or a competitive ball game. Aggressive boys are given the opposite, like modeling nonresistant clay.

The rest of the day the campers have “free play,” do as they please. Here the special disturbed nature of each child becomes more apparent. Some lonely types walk aimlessly about alone. Others, though less aloof, seem to “play alone in groups.” Still others tease, provoke fights, interfere with playmates. The staff has a full day’s work easing tensions and keeping order, but the temper outbursts give them a chance for diagnosis and treatment on the spot.



WORRIER who cannot make up mind to toss ball gets plenty of time to decide since other children have troubles too, understand. At first, boy refused all camp games. This participation shows progress.

REBEL (below) who had run wildly out of his cabin, refusing to go to bed, sulked in the dark until he got an hour’s attention and an offer of milk and cookies. He broke into sobs of relief, went to bed.



COMPLAINER, who constantly objected to camp rules, plays too roughly with animals he catches.



Misery Left Behind

In the Anchorage side of camp there are even more tears. Here the girls are often obsessed by fears that their physical appearance is hopeless. By teaching grooming techniques, self-confidence is built up. It is slow work, for many of the girls are afraid even to try anything, whether doing their hair or making a basket. But every few days a wonderful thing happens. A depressed child, won over, breaks into a first smile. When the children go home, some of the glow remains. More than one incorrigible has happily declared she would feel honored if each morning one of her parents would inspect her tidy bed, camp-style.



PRIMPING PERIOD in girls' camp is held once a day to help girls lose anxiety over appearance

Here Mike Kallenberg, an 18-year-old Sarah Lawrence freshman, helps two charges brush locks.



GIRL IN MISERY droops and sobs uncontrollably after refusing to weave a basket of reeds as Mike Kallenberg tries to comfort and encourage her. She is same girl shown on pages 96, 97 who would not paint a mask on her face. At this point she had been in the camp for five days and been depressed the entire time.

NOW IN SMILES (opposite page), the girl sobbing in the picture above gives in to the joy of learning to swim. Held securely in Mike's arms she shows her first sign of happiness. She is far from cured of her deep-seated depression, but here the camp's program and plan have helped her to make an important start. →



★ **BANKSVILLE, N.Y.** Since LIFE's story on U.S. roadside inns, La Crémallière restaurant has served 25% more customers; had to turn away many more.

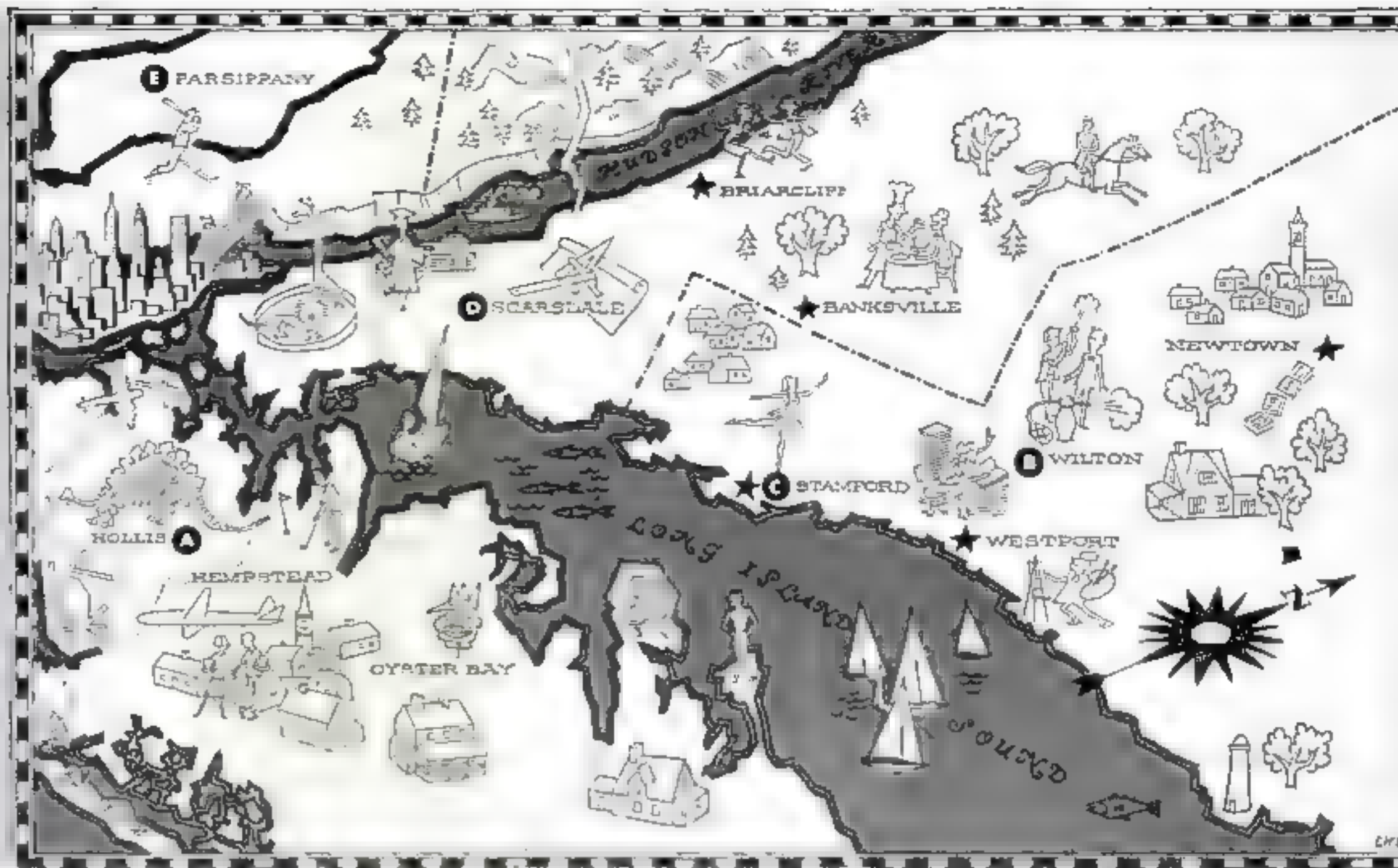
★ **NEWTOWN, CONN.** When LIFE reported on Scrabble's popularity in America, the game won thousands of new fans from Great Britain to the Belgian Congo.

★ **BRIARCLIFF, N.Y.** LIFE's series of children's parties—one featured a Briarcliff family—was so popular the ideas are being put into a book.

★ **STAMFORD, CONN.** A uniquely modern church, shaped like a fish, made the pages of LIFE, Now, 2,000 visitors a week come from all over to see it.

★ **WESTPORT, CONN.** Writers, artists, advertising people ask so many questions whose answers can only be found in LIFE, that library keeps complete LIFE file—1,133 issues—refers to them constantly.

These are just a few of the results LIFE brings every week. Are you using LIFE to get results for your product?

**B WILTON, CONN.**

Millions for a scent. Both N. Lee Swartout and Charles N. Granville, above, were commuters who yearned to work in their hometown. They started a perfume business and their extraordinary selling idea—wafting Angelique Black Satin and White Satin perfumed bubbles over Wilton—made LIFE

Says Pres. Granville of Angelique and Co., Inc., "After LIFE hit the stands, our switchboard was swamped for days. Stores everywhere, even overseas, asked us to send merchandise air-express. The stores sold out completely during the three weeks from then until Christmas, and in January our total sales volume more than tripled. LIFE really put us on the map and gave us world-wide recognition."

IN the course of 13 issues LIFE reaches more than 7 out of 10 households all around New York.

These New York Suburbanites—homemakers, commuters, or people who work right in their own communities—share a love of LIFE. No matter how busy their schedules, they follow LIFE's exciting pages week after week. Alert, vital people, they invariably *do* something about the many things they see and read in LIFE.

How does LIFE get such a loyal, *active* following every single week? The answer lies in LIFE's unique way of handling the news. Nothing makes understanding swifter, interest livelier and response surer than LIFE's *picture* reporting.

Week after week, LIFE's famous photographers bring the news



C STAMFORD, CONN.

Young success. "LIFE's story about little Kathy Schaberg's dancing debut at my school made such a hit that my pupils were invited to make countless local performances and then to appear on highly rated TV shows. I was asked to write two articles for a national magazine, invited to join a teaching staff on the West Coast, and I had to turn down as many as 700 new pupils in one season," says dance master Phil Jones.

"As a result of this overwhelming response from our story in LIFE, I am revising my teaching program to accommodate hundreds more applicants."



A HOLLIS, N. Y.

Natural interest. In 1953, LIFE presented a four-color series on natural history. Out of it came a unique idea.

An Ideal Toy Corp. official writes, "LIFE's *World We Live In* articles inspired us to create hobby kits for building dinosaur skeletons which have been highly successful. We give LIFE full credit for the interest children, as well as adults, are showing in making these models."

NEW YORK

brilliantly *alive* for LIFE's vast audience of readers.

Take this swift, sure LIFE news coverage, add to it LIFE's great series and feature articles—and you've got everything a reader could ask for . . . and hence, overwhelming response.

The New York area stories on this page are just examples of the kind of exciting things that happen—and keep on happening—to the people *and* to the products that appear in LIFE.

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Only **LIFE** gets so much response . . .
so swiftly, so surely



D SCARSDALE, N. Y.

Spreading school idea. When Perkins & Will designed this unusual 14-classroom structure, LIFE pictured it in 1954.

Says Dr. Archibald Shaw, Superintendent of Schools, "Virtually every day since the Heathcote School was in LIFE, architects, students and parents from all over the world have visited us, and we have attracted valuable teachers." Architect Perkins adds, "We have more than doubled the size of our staff and we attribute a great share of our firm's growth to the LIFE coverage of our buildings."



E PARSIPPANY, N. J.

Major attraction. "When LIFE wrote up our batting range in 1951, it was the only such range in the world and the pitching machines used by us and the Major League teams were hand-fed. LIFE's story created such demand for ranges, I invented the Automatic I.Q. Pitching Machine and started a full time business manufacturing it.

"Today, it's used by Major League ball clubs, and over 120 cities here and abroad have batting ranges. We recently had an order from Venezuela for 44 machines costing \$1,475 each! And it all started thanks to LIFE," reports John De Mare, I.Q. Baseball Machine Corp.



WITH REAR ADMIRAL RICKOVER ABOARD AS AN HONORED GUEST, POLAR-VOYAGING NUCLEAR SUBMARINE "NAUTILUS" COMES UP NEW YORK HARBOR AFTER



SHARING HONORS, Admiral Hyman Rickover, representing President Eisenhower, signs register at New York City Hall with Commander William

Anderson, *Nautilus* skipper he helped train. Afterward the two men were city's luncheon guests at Waldorf-Astoria Hotel, where they both received medals.



RECORD 6½-DAY CROSSING FROM ENGLAND. PORT'S TUGBOAT OPERATORS ORDERED ALL AVAILABLE CRAFT TO WELCOME SUB AND ESCORT HER UP THE BAY

A DELUGE OF HONORS FOR AN EXASPERATING ADMIRAL

by ROBERT WALLACE

ALMOST as though it had been formally promulgated, like National Mental Health Week or National Dog Week, there was a period in mid-August that amounted to a National Be-Nice-To-Rear-Admiral-Hyman-G.-Rickover Week. The mayor of New York, arranging a brass band and ticker-tape welcome for the homecoming crew of the pole-voyaging atomic submarine *Nautilus*, invited Rickover to be a guest of honor. Then Congress, in a rare action, voted Rickover a medal. Then the Navy let it be known that Mrs. Rickover, who had not been asked to christen any of the eight atomic submarines that have thus far been launched, would certainly be asked to christen one soon. Expressions of appreciation arrived from the Electric Boat Co., builders of *Nautilus*, and the annual Encampment of the Army and Navy Union. The White House announced that the President had appointed Rickover his personal representative for the New York welcoming ceremony. And finally the Navy passed the word that Rear Admiral Rickover would be promoted to vice admiral in the near future. Short of giving Rickover the key to Fort Knox, there seemed little more the nation could do for him at the moment, and little doubt that he was the Navy's beloved man of the hour.

Nothing could be further from the truth. Only a few days before, Rickover had been subjected to another in the series of official snubs that have marked his career since he emerged to prominence as the "father" of the atomic submarine. This time the snub was administered by no less a seat of power than the White House itself. When the commanding officer of *Nautilus* was decorated in the White House last August 8, Rickover was conspicuously not invited to attend. In similar fashion he had been pointedly left off the original invitation list for the dedication of the Shippingport atomic power plant last May. The fact is that in his messianic zeal for his nuclear-propulsion program Rickover has made a great many enemies who are determined to keep the admiral in his place. Yet for every battle Rickover has lost he has won a campaign. And every official snub has provoked a public outcry such as resulted in his recent flood of honors, including what amounted to a public White House apology.

Rickover is just about the prickliest personality in Washington today. Like the original Davy Crockett, he is "clear meat-ax disposition all the way through." He does not believe in several fine old American

household gods, such as the Team, the Thoughtful Suggestion, the Faith That Moves Mountains, Organization and Know-How. He is perhaps the most unpopular admiral in the Navy, and there are a number of influential civilians who do not care much for him either. As one official of a big industrial concern recently said, "Now, don't misunderstand me. I don't dislike Rickover. I hate him."

The primary reason for Rickover's unpopularity, both among the high naval brass and the leaders of industry, is that he is not a Team or a System man. He is a red-tape cutter, a by-passer and a tromper-on-toes. In dealing with large civilian contractors such as General Dynamics, Westinghouse or General Electric, Rickover pokes a long nose into what the contractors consider their private business. When a contractor's engineers are designing, developing or building some piece of apparatus ordered by Rickover, he constantly looks over their shoulders and passes judgment on them. "I don't like your man Sweeney in the metallurgical department," he may say to an industrial vice president. "I think he's stupid. He's wasting time. Get him off the job, or maybe there won't be any job. We'll give it to Westinghouse." Contractors find this annoying. There are also other reasons for their dislike of him.

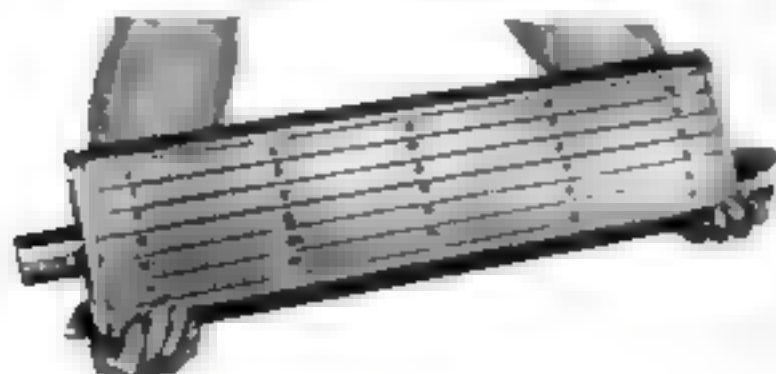
Rickover is a prodigious worker. He insists that all the men who work for him, either directly or indirectly, be as emotionally involved in his project as he is. Ordinarily he turns up at his Washington office at 8 a.m. and is furiously busy until 6 p.m. six days a week, pausing only for light lunch served at his desk. After 6 p.m. he is likely to fly to one of the factories or laboratories where his ramified business extends—perhaps the Knolls Atomic Power Laboratory at Schenectady or the Bettis laboratory near Pittsburgh. There he confers with engineers and scientists until midnight, then boards a sleeper train which returns him to Washington for his next day's work. When he telephones an official of, say, the Electric Boat Company in Groton, Conn. and says "Will you be in your office with all your people for a meeting at 10 p.m. Saturday night?" he cannot understand why the idea is not enthusiastically received.

Another quality of Rickover's that may account for his unpopularity is his very appearance. Perhaps it is not true that a man's occupation or major interest has an effect on his exterior. Still, it seems that many policemen have big feet, plasterers have large hands and wrestlers have



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BOARDING "NAUTILUS," Admiral Rickover transfers from Navy tug-boat off Brooklyn to share sub's triumphal entry into New York harbor.

RICKOVER CONTINUED

thick necks. Rickover, as a man who lives almost entirely by his mind, seems to have an uncommonly large head. Actually the head is of normal size, but as one watches Rickover in action, the head seems to expand. He looks like thought incarnate and this seems to induce a feeling of inferiority, even resentment, in his beholders.

Rickover is a small man, about five feet, six inches in height and 125 pounds in weight, and his body is so overshadowed by his head that it seems to exist merely as an appendage to it. It is an adequate body, tough and wiry, but it attracts no attention at all. The admiral feeds it on such things as skim milk, fruit, hard-boiled eggs and black coffee, and in return it provides the head with transportation and various necessary fluids. It is not a temperamental or complaining body and perhaps does not dare to be: if it were to suggest telegraphically that it had sore feet or a cold, the head would no doubt give it a ferocious tongue lashing. It is utterly controlled by the head, is not permitted to engage in frivolities such as dancing or golf and may not take tobacco smoke into its lungs. It is a body brought up in the old-fashioned ascetic school: it will do its job faithfully until at last it falls apart. In sum, Rickover is an egghead.

It is tempting to list other reasons for Rickover's unpopularity, mainly because it is so easy, but in order to grasp the full stature of the man—or as some might prefer to say, his full enormity—one should look more closely at who he is, what he does and how he does it.

Rickover's great achievement has been to put atomic energy to practical, nonexplosive use. He has been responsible for the design and production of the world's first nuclear-powered engines. One of them has powered *Nautilus* since 1954; another produces 60,000 kilowatts of electric power for the city of Pittsburgh; still others, now in development, will propel a destroyer, a cruiser and an aircraft carrier. Within 50 years almost all the major ships in the world may be propelled by atomic power, and Hyman G. Rickover, for having produced the prototypal machinery, will have a place in nautical history not far below John Ericsson, inventor of the screw propeller.

Rickover is not a scientist. The theory of the atomic reactor is of course not his. Rickover is an engineer, translating others' theories into objects. But in this field he is an unquestioned genius, an unusual creature for any society to have produced: a tough intellectual.

Perhaps tough intellectuals, like diamonds, are produced by pressure. In Rickover's youth, certainly, the pressure was ample. He was not only poor, he was scrawny; not only an immigrant, but a Jew. These pistons of prejudice, ramming him from four sides, crystallized his character early. Born in Russian Poland in 1900, he came to the U.S. with his family in 1904. His father, a tailor, ultimately settled in Chicago. Hyman began to work as soon as he was old enough, as a delivery boy and as a Western Union messenger. He delivered telegrams after school, then worked at his homework until long past

CONTINUED



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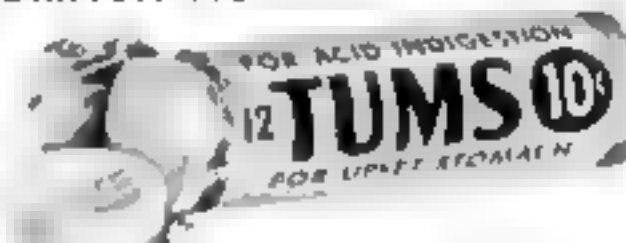
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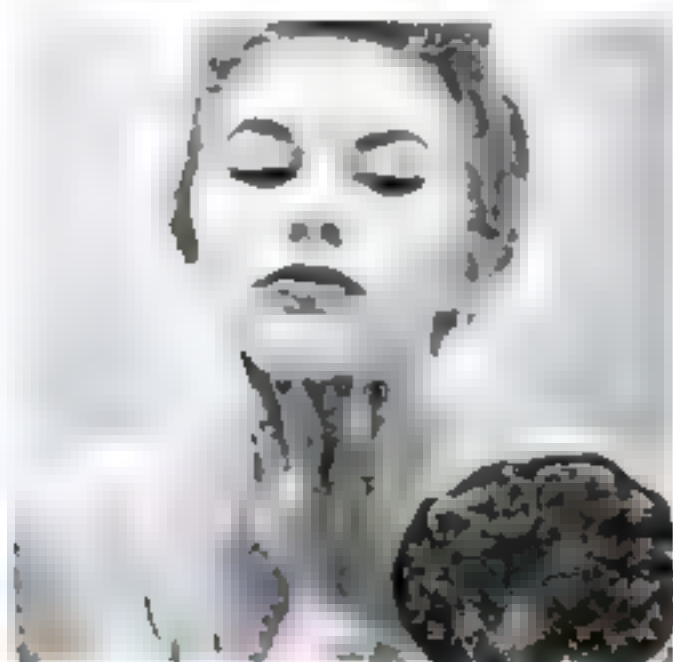


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midnight. He went to Annapolis not because nautical life particularly appealed to him but because the education was free. At the academy he was withdrawn, studious, determined to succeed scholastically. He was not well liked and took little part in athletics or in such social life as there was. He was a grind and a rebel but already so hard intellectually that he was untroubled by the stigma that attaches to such individuals. The prejudice against Jews at Annapolis, almost nonexistent today, was strong in his years, 1918-1922. The man who ranked number two academically in Rickover's class, for example, was a Jew. His picture in the class yearbook was printed on a perforated page—for easy removal. As may be imagined, Rickover developed no gluey sentimental Navy spirit, although he has a deep sense of obligation to the Navy for his education.

After graduation (he stood 107th in a class of 532) Rickover began an unspectacular career in the peacetime Navy. He specialized in electrical engineering, earning, at Navy expense, a master's degree at Columbia. While there he met his future wife, Ruth D. Masters, who was studying for a master's degree in international law. They were married in 1931 and have one son, Robert, now a student at Yale.

Rickover served various tours of sea duty, some in submarines, but merely gained a reputation as an unsocial, work-obsessed man whose chances of promotion were dim. The only seagoing command he ever held

was the U.S.S. *Finch*, a dilapidated mine sweeper on the China station. But chance and 20th Century technology were working in his behalf. Early in World War II, still a lieutenant commander, he became chief of the Electrical Section of the Navy's Bureau of Ships. It was not a post much envied by regular Navy men, who did not see any particular glamor in fuse boxes. But at that time the power-generating equipment and circuitry of combat vessels was in poor shape. After a salvo from the main battery, half the electric circuit breakers on a warship were likely to pop out. Throughout the war Rickover worked to cram the Navy's ships with the best available equipment, driving his men to exhaustion, snarling at bores, wrestling like Laocoön with the serpents of red tape. By the end of the war he had made naval electric gear far safer and more reliable and had earned a reputation as a man who could accomplish a job. But he had also earned a reputation for making enemies in large round numbers. It was the latter that weighed most heavily in peacetime, and again his future seemed dim.

In 1946 Rickover heard that the Bureau of Ships was about to send a captain to Oak Ridge to study atomic energy. The opportunity was extraordinary, but of all the qualified captains in the Navy only one, Rickover, bothered to apply for the assignment. At Oak Ridge he soon concluded that the future of the Navy lay in nuclear propulsion and that the most suitable vessel to be first converted was the submarine. But his vision was not shared by his superiors. He expounded and orated, needled and wheedled, and in the end was recalled from Oak Ridge, assigned some vague "advisory duties" and given an office in an abandoned ladies' room in the Navy Building.

But Rickover is not merely persistent. He has a fatalistic view of life and the courage that arises from it. "A military organization is set up to do routine, not imaginative work," he says. "If anyone comes along with a new idea, the people in the organization naturally tend to make him conform. The first thing a man has to do is make up his mind that he is going to get his head chopped off ultimately. If he has that feeling, perhaps he can accomplish something."

Accordingly Rickover bypassed several echelons of superior officers and in 1947 went directly to the then Chief of Naval Operations, Admiral Chester W. Nimitz, with his plan for an atomic submarine. Nimitz quickly grasped its potentiality and recommended the project to the Secretary of the Navy. Presently Rickover became chief of a new section in the Bureau of Ships, the Nuclear Power Division.

To a man less jaundiced in his view of The System than Rickover, the appointment might have meant that he could go ahead and produce a nuclear submarine. But Rickover had been in the Navy and in Washington too long. He knew that it might be 15 years before the project could be completed within the organizational framework. He had to deal not only with powers, legions and dominions of administrators in the Navy but with other administrators in the Atomic Energy Commission, which controls all the nuclear fuel in the nation.



MIDSHIPMAN Rickover was described in 1922 Annapolis yearbook as studious, with little time for humor.



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AT PRESS CONFERENCE in Brooklyn Navy Yard admiral answers a question about *Nautilus* performance. At left is Rear Admiral Chester C. Wood. At this conference Secretary of the Navy Gates told newsmen he had discussed possibilities of Rickover's promotion with him last spring.

RICKOVER CONTINUED

The thought of being caught between two phalanxes of administrators was horrifying to Rickover. "Supertheficient 'administrators' are the curse of the country," he says. "Their main function seems to be to harass brainworkers with trivia and to waste as much time as possible."

To avoid this kind of administrative "help," Rickover executed a classic maneuver in antibureaucracy. It was arranged that the AEC should establish a Naval Reactors Branch to cooperate with the Nuclear Power Division in the Bureau of Ships and that this new branch should be headed by a likely fellow named Hyman G. Rickover. Thus it came about that Rickover, wearing his captain's hat, would write letters to be opened by Rickover, wearing his civilian hat. Whatever Rickover wanted, Rickover got. It was a rare example of the kind of cooperation that can be established when military and civilian branches of the government have a genuine mutual interest.

Having secured a little elbowroom by his maneuver, Rickover set out to recruit talented men who would help him complete his project. Rickover himself interviewed more than 1,000 young engineers, both naval and civilian, subjecting them to treatment designed to reveal their strengths and weaknesses as quickly as possible. In his office he kept a chair whose front legs were shorter than its rear ones. As the interviewees sat in it, constantly sliding forward and hitching themselves backward, blinking in the direction of that eminent, seemingly disembodied head, Rickover would ask questions.

"Are you resourceful?" he once said to a hapless engineer.

"Um—well, yes."

"Suppose you're on a sinking boat with five other men. The conditions are that one, and only one of you, can be saved. Are you resourceful enough to talk the other five into letting you be the one?"

To a question so hypothetical the engineer felt safe in once more replying "Um—yes." Thereupon Rickover gave a signal and five grim-faced men marched into the room and arranged themselves behind the victim. "All right, son," said Rickover. "Start talking."

There is no record of what the engineer said. However, in the closely knit group of 100 engineers in Rickover's Washington headquarters, there is none who is not resourceful.

During his interviews Rickover makes it a point to discover the extracurricular interests and abilities of his personnel. Some time ago he encountered a poor trembling girl, a Wave, who wanted a secretarial job and who admitted that she could sing.

"Sing? Anybody can sing."

"But I took voice lessons."

"All right. So sing something."

Thereupon the Wave burst into loud song, revealing that she had indeed a fine voice. Rickover filed the information and long afterward found a use for it. By that time his program was so far advanced that prospective commanding officers for nuclear submarines had been selected and were being trained in his headquarters. These men,

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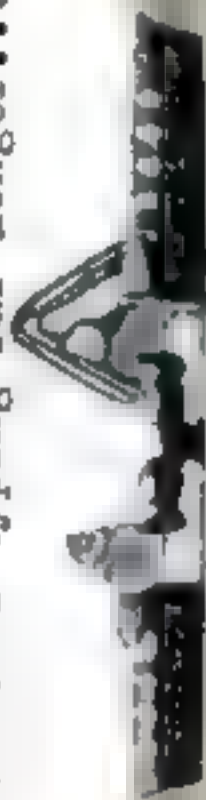
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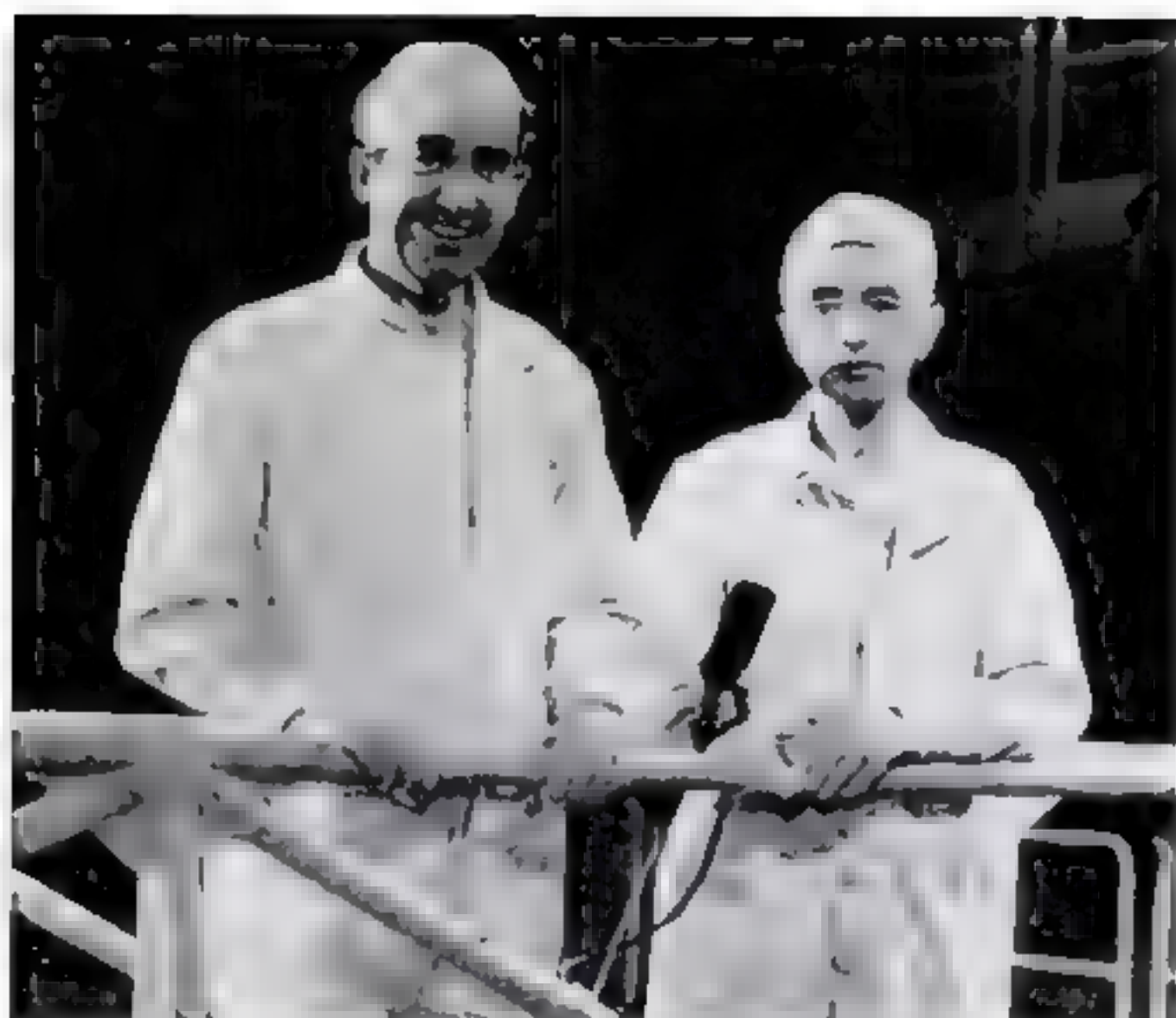
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AT NUCLEAR POWERHOUSE, Rickover and commentator Edward R. Murrow (left) wear protective clothing while visiting Rickover-developed reactor in Shippingport, Pa. which supplies electricity for Pittsburgh area.

RICKOVER CONTINUED

like Commander Anderson of *Nautilus*, are among the very finest in the Navy. They are chosen from scores of eager applicants and their selection marks them as individuals with great futures. But their very selection may cause them to think too highly of themselves, a possibility that disturbs Rickover. To deflate them Rickover has ordered his singing Wave to go into their presence on the first day of each month, remove her shoes in deference to the hallowed ground on which she stands and sing *My Hero*, loudly and completely. In time they have all learned the words and perhaps something else.

Rickover's method of selecting personnel is not so frivolous as it may sound. Like many other older executives he has a gloomy view of the security-obsessed college graduate, whom he calls "a nest-builder, a bird-hatcher." He is also depressed by the lack of fundamental knowledge among young engineers. "They know a lot of facts," he says, "but few principles. They simply are not educated."

In his respect for the old-fashioned virtues of intellectual curiosity, energy and initiative, Rickover has made some grievous mistakes in judgment—in the eyes of the administrators. Within his command he has frequently arranged things so that higher-ranking officers work for their juniors or that important jobs are filled by civilians rather than naval officers. Most of the men immediately around Rickover, in fact, are civilians, and most of these in turn are in the highest salaried levels of the civil service. This annoys the Navy brass, but Rickover has a sound reason for it. "A naval officer is usually assigned to the Bureau of Ships for a two-year period," he says. "It takes him a year to understand his job. Then he works at it for six months and spends the next six months worrying about his next assignment. There is no continuity of responsibility. An officer makes an important engineering decision in 1958, and when the project comes to maturity in 1962, where is he? In Honolulu. A man should stay in place long enough to see the fruit of his decision, to take pride in its success or take the blame for its failure."

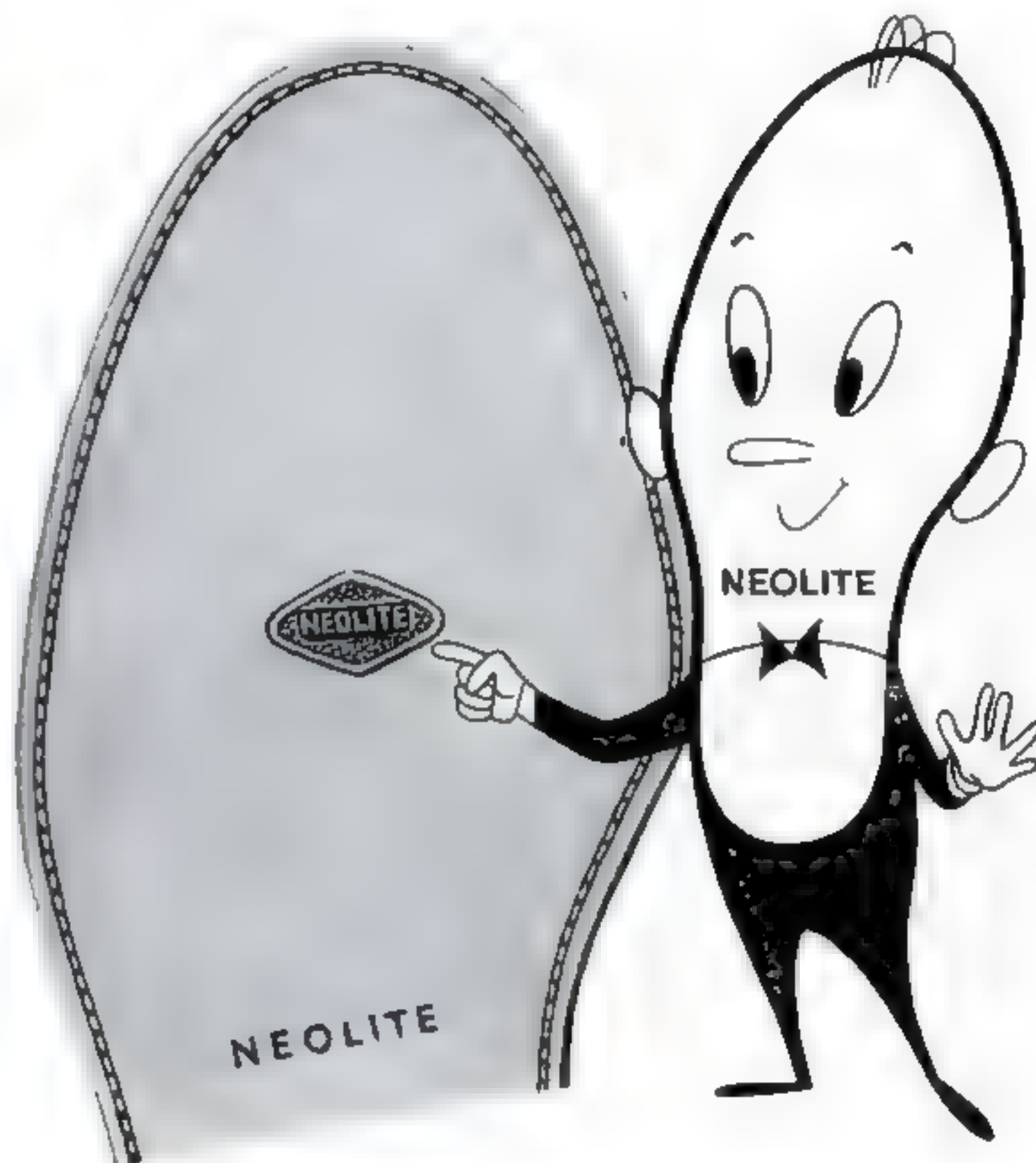
In 1949, having surrounded himself with good men who seemed likely to stick with him, Rickover set out to produce some nuclear propulsion machinery. One might have thought this a relatively easy task, given the men, the money and the American technological know-how. But it is Rickover's view that Americans really do not know how. "Much of our technology is only empiricism," he says. "We know an automobile engine works, but we don't know why. We go along by trial and error, turning out enormous quantities of goods without understanding the basic principles involved."

The making of a power-producing nuclear reactor involves both facts and principles previously unknown to American industry. In idea the reactor is a simple thing. The element uranium, which can be made to explode, can also be brought to a point short of explosion in which it produces great heat. In a nuclear propulsion system this heat is made to produce steam. The steam rushes through a turbine, the turbine turns a shaft running into a gear box, the gears in the box turn another shaft running to the propeller and presently one is under the North Pole. To be sure, a few volumes of information are

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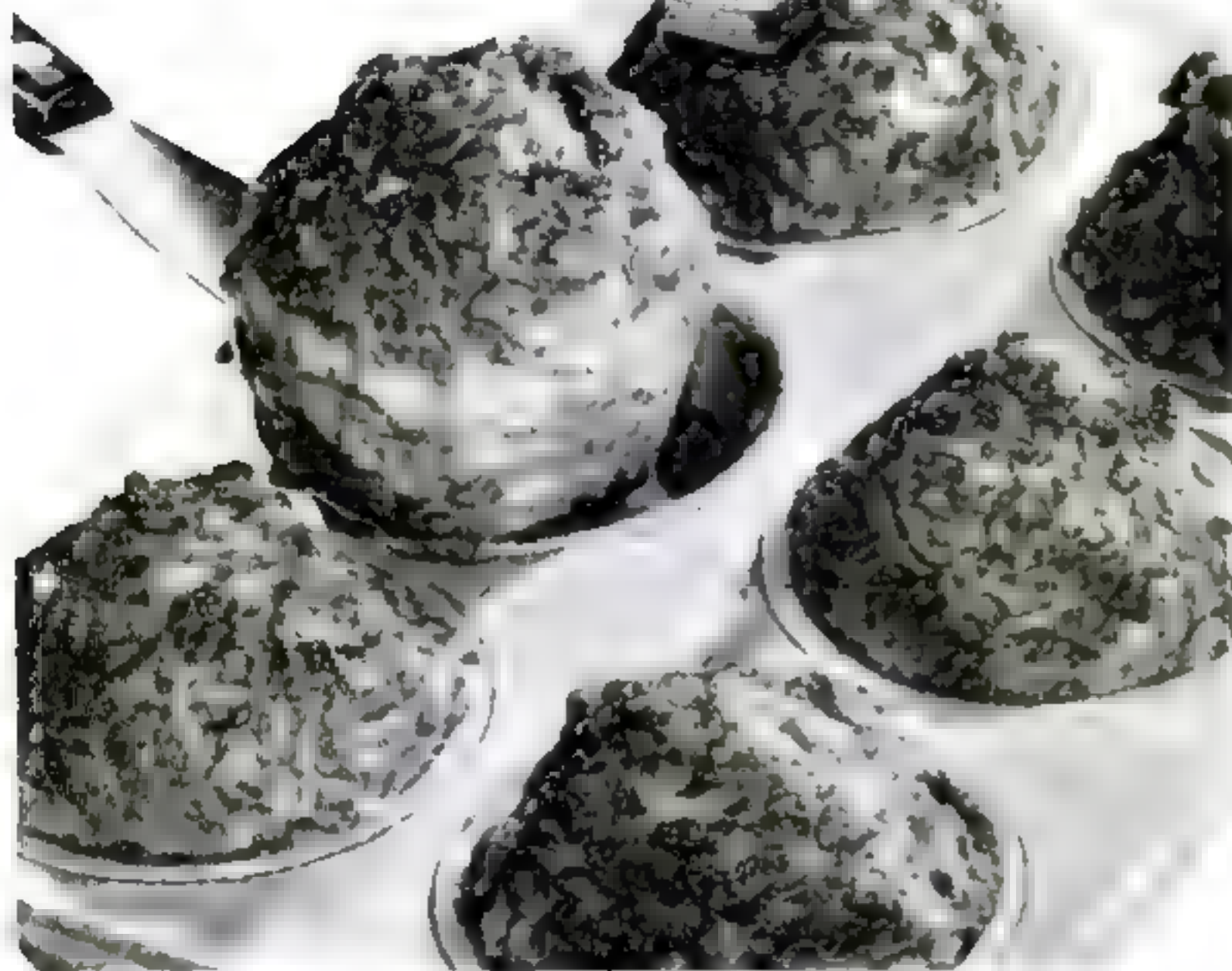
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RICKOVER CONTINUED

missing from this explanation, but the theory remains a simple one. However, the engineering, the practical application of the theory, presents problems of fantastic difficulty. It is in solving these, in getting the job done, that Rickover's genius has revealed itself.

In designing, developing and building his nuclear-propulsion units, Rickover dealt with American industry on a massive scale. More than 500 corporations and many thousands of men have been involved in the project. Most parts had to be designed and fabricated from scratch, and it was in this area of origination and improvisation that American industry revealed a few weaknesses. For example, the reactor program has required a number of very large castings and forgings, chunks of stainless steel or manganese-molybdenum steel as much as two feet thick and several feet in diameter. About 50% of those made to date have had to be rejected because of various defects, at a cost of many millions.

Not long ago Rickover placed an order for two pieces of equipment so large that they had to be fabricated in left-hand and right-hand sections, later to be welded together. The manufacturer carelessly made four left-hand sections. On another occasion a 16-inch valve failed because it had a sharp corner in a critical location. The failure occurred after the reactor was in operation and necessitated a shut-down for many weeks. "And yet," Rickover says, "if there is one lesson that any engineer worth his salt should have learned, it is that he must avoid sharp corners in design."

Obviously American industry has responded to Rickover's challenge: the submarine reactors have been built. But industry did not respond quite so handsomely as worshippers of Yankee know-how might have expected. "It has been drummed into us," says Rickover, "that we have some God-given superiority in our way of doing things. This is not true, and some changes are in order. We must stop depending on routine production systems and methods. The nuclear age demands much better technology than we are now using. And we must cut out the organizational red tape and get down to fundamentals. The man running a factory or a project must keep himself personally informed of what is actually going on. He can't rely on progress reports from underlings."

Rickover on U.S. education

If these points seem obvious, that does not make them any less significant. What Rickover is talking about is the survival of the country. There are other changes he would make. He is a puritan. He would do away with some of the needless luxury of American life.

But the primary alterations he thinks necessary are in the field of education. He believes American standards are far too low. He despises the theory of John Dewey's adherents that the purpose of education is to prepare the child for life adjustment. He thinks schools should be used solely to train the mind in the arts and sciences and that such matters as citizenship, group living and apprentice garage mechanicship should be learned elsewhere. Emphasis on irrelevant subjects in the schools, he believes, will soon lead to disaster.

Rickover thinks a national standard of excellence should be established for the high schools, the standard to be determined by a group of outstanding scholars rather than by professional "educators" or pedagogues. A number of schools—perhaps 25—in which this standard is employed should be set up in various parts of the country so that parents and school boards may see the result. Strong efforts should be made to accelerate the education of talented children. The school year, established in the old agrarian days when it was necessary for children to work for three summer months on the farm, should now be lengthened.

In his criticism of the school system Rickover has alienated yet another group of people. If angry educators are placed alongside the Navy brass, the Atomic Energy Commission brass, the industrialists and businessmen who dislike Rickover, the array of enemies appears so formidable that one wonders how he has managed to survive thus far. Why has not one among them managed to cut his throat?

Unlikely as it may sound, Rickover is a superb politician. He has an acute understanding of the congressional mind and of the pressures upon it. He is summoned frequently to the Capitol to testify on the state of his program, on appropriations or on some other subject, and invariably he creates a favorable impression. He rarely presents the customary prepared statement. Instead he merely awaits questions and answers them with startling candor. "Haven't you prepared for this hearing?" a congressman once asked him. "Certainly," said Rickover. "I shaved and put on a clean shirt."

"You can't fool a congressman for long," Rickover says. "Sooner or later he will find out whether you're telling the truth. If you are, he'll help you. If not, you get the meat ax." Rickover has always given Congress a straight, if sometimes horrifying, answer. As a

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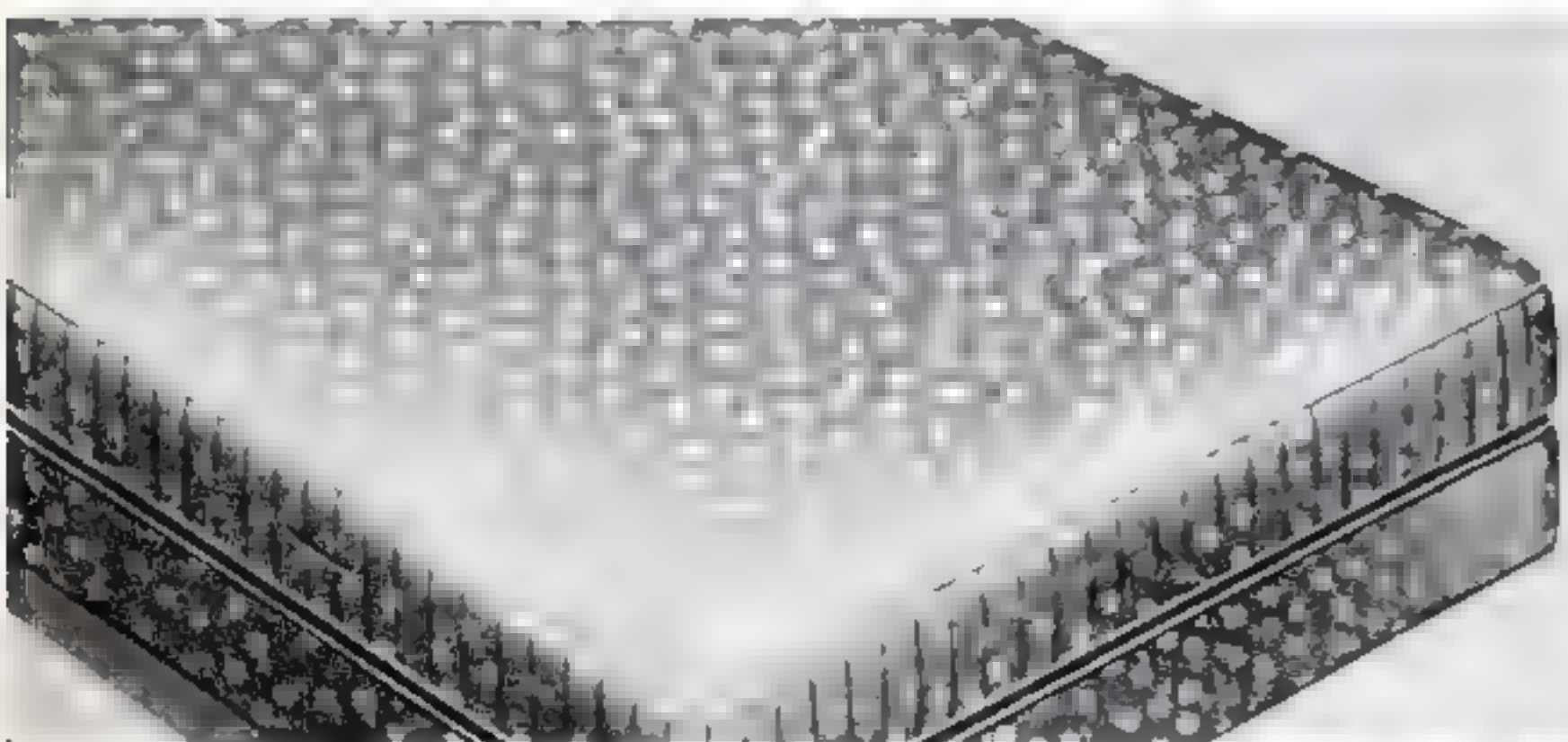
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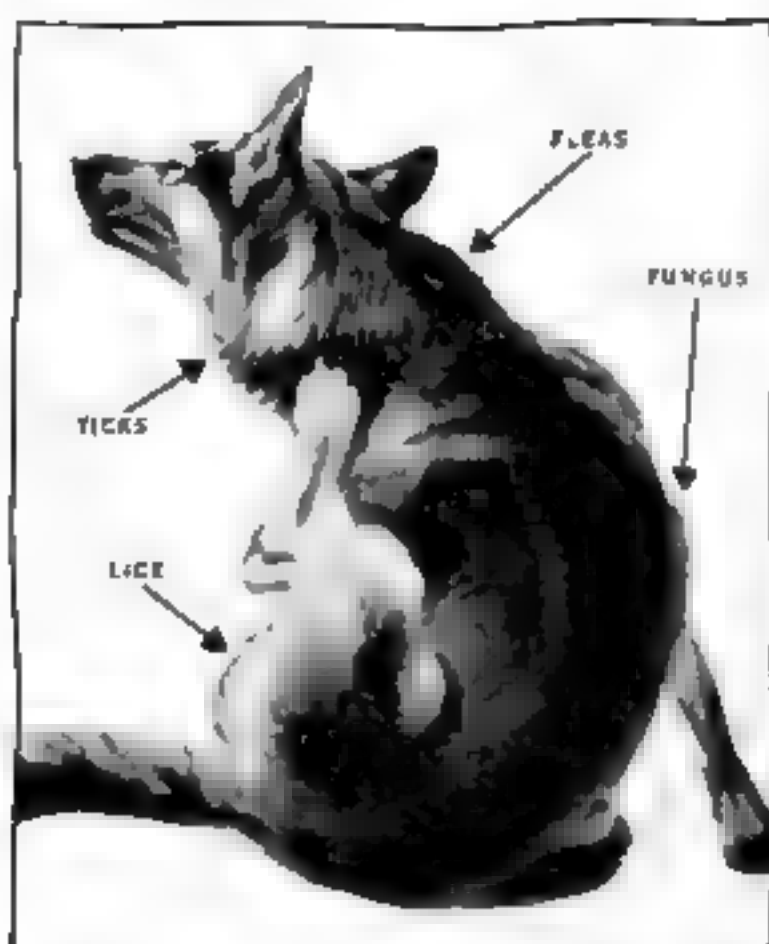
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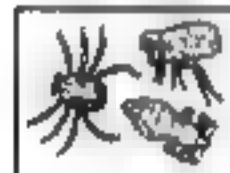
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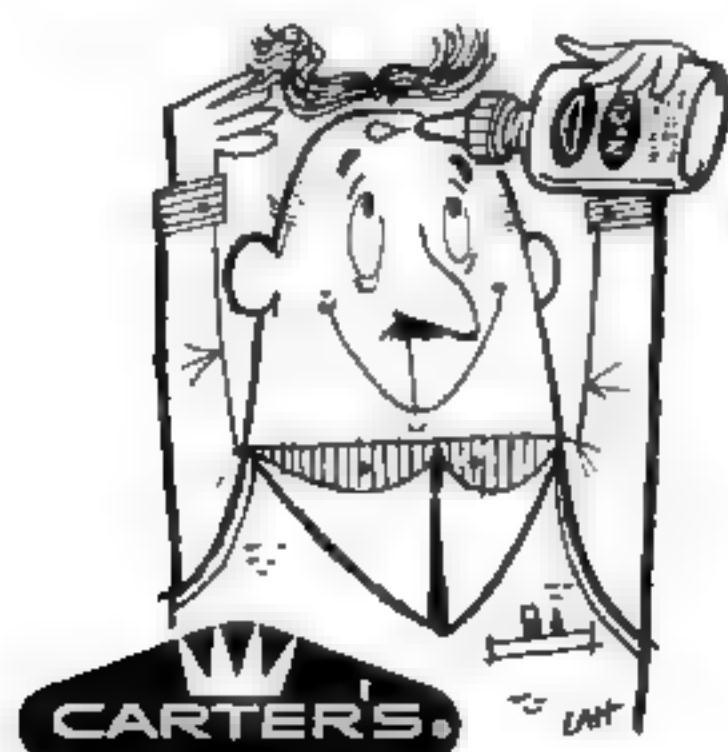
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STRONGEST SUPPORT for admiral comes from Congress. Here joining him in look at polar area on globe before hearing him testify are (from left) Senators Flanders of Vermont, Johnson of Texas, Stennis of Mississippi.

RICKOVER CONTINUED

result he enjoys enormous prestige in the Capitol. Earlier this year when the House was discussing the expenditure of \$35 million to develop a nuclear power plant for a destroyer, there took place the following colloquy:

"Rep. Holtfield: Mr. Chairman, I rise in support of the bill. . . . I have a great deal of confidence in the man who is in charge of this particular program, Admiral Hyman Rickover. . . .

"Rep. McCormack: Admiral Rickover appeared before the special select committee of which I am chairman in connection with outer space the other day. He made an outstanding witness and made a profound impression. . . .

"Rep. Holtfield: . . . I do not believe there is a man in existence that has the composite knowledge which is embodied in Admiral Rickover . . . there are many industrial companies that would pick this man up and pay him five times as much as the Navy. . . .

"Rep. McCormack: I would say 10 times as much . . . very dedicated man, an unusual gentleman, frank . . . a rugged individualist . . . a great leader . . . persuasiveness . . . sincerity . . . dedicated mind . . . maximum benefit possible for our country. . . .

"Rep. Durham: Mr. Chairman, will the gentleman yield? . . . Words are hard to find to do merit to Admiral Rickover. . . .

"Rep. Van Zandt: Mr. Chairman, will the gentleman yield? . . . I would like to join in the tribute to a very distinguished American and naval officer. . . .

The request for \$35 million was speedily granted.

In 1952, while *Nautilus* was under construction, the Navy brass made one serious attempt to get rid of Rickover by retiring him. He was then a captain and had once been "passed over" by a selection board which had not seen fit to make him a rear admiral. According to the rules governing promotion, a second passing-over would have meant automatic retirement. Despite an urgent last-minute commendation by the then Secretary of the Navy, Dan Kimball, who pointed out that Rickover had done "the most important piece of development work in the history of the Navy," the board passed over Rickover again. He was, so the admirals thought, through. But thereupon the Senate Armed Services Committee lit such a fire under the Navy that a special selection board was convened with instructions that left the clearest of implications: promote Rickover or the committee will overhaul the promotion system forthwith. Rickover was promoted.

It should not be thought that the only friends Rickover has are in Congress. He has others. The closer one gets to Rickover the more warmth there appears to be: the handful of men who work intimately with him in his headquarters, if not sentimental about him, do have a reverence for him that borders on affection. In his treatment of his men Rickover draws no lines of rank. The lowest of his subordinates can and does argue heatedly with him. Rickover delegates large amounts of responsibility and authority to his subordinates, thus giving them the satisfaction of conceiving and implementing ideas. This is rare in the Navy or in private industry, where brainworkers' children are customarily ripped untimely from them by the administrators. It is, indeed, the only coin sufficient to pay Rickover's men.

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CONTINUED

Beginning next week, a new LIFE series

LIVABLE HOMES

ANYONE who has ever noticed the row houses that stretch for dreary miles along the approaches to big cities will have a tough time making any sense out of the illustration above. For shown here is a daring new idea in row-house design, executed especially for LIFE by one of the nation's foremost architects. The full house in full color will appear in LIFE, along with many other original sketches and photographs in LIFE's big new series titled "The U.S. Need for More Livable Homes."

This four-part, 50-page series begins in next week's issue. It will be devoted to a dual proposition: that more livable homes are possible in wide price ranges; and that Americans can afford and should have better homes. To demonstrate its thesis, LIFE has commissioned three famous architects to design some unusual new houses.

In the last 10 years substantial progress has been made in the design, materials and comfort of new houses. Even greater improvements are certain to come in the next decade.

But it is not so certain that the homes built over the next few years will use the advances to give greater livability. This will depend in good part on the home builders. But it will also depend on the consumer whose likes and dislikes determine the looks and the quality of new houses. Because the influence of the vocal house buyer is felt so directly on the market, builders listen. And even big builders are flexible enough in their

production methods to respond quickly to the changing demands of buyers.

Innovation and experimentation are the essence of progress. If builders are to create good housing and good communities, they must put into practice new ideas about land use, landscaping and community facilities. And if these new houses are to be both useful and pleasing to the eye for decades, rather than be the source of tomorrow's slums, they must have quality—quality in design and in materials used.

One of the reasons for today's cramped home quarters is the fact that, during a period when housing costs rose 250%, Americans put 25% less share of family income into housing. LIFE believes that if consumers will allot a greater proportion of income for housing, they will get houses that will not only satisfy today's living requirements but will also maintain their value over the years.

In its series of more livable homes, LIFE first shows examples of what home owners say is wrong with many of today's houses. Then, more importantly, we present ideas as to what is possible, what is new, and what is worth looking for. We do not suggest that the new houses, in Parts II, III and IV of the series, are the final answer for either buyer or builder. Rather, we hope to put before the reader a variety of ideas which will allow him, when he comes to buy, to do so with greater discernment and conviction—and also with greater enthusiasm for that which is good.

ANDREW HEISKELL, *Publisher*

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RICKOVER CONTINUED

procuring for them the highest civil-service rating or the highest naval rank he can. He also protects them from outside interference except when he is too busy protecting himself from the same, which is often. "Today everybody is an expert on nuclear reactors," he says. "Everybody has an idea that will work better, on paper, than ours. These guys will go to someone in authority, the Chief of Naval Operations or even the Secretary of the Navy, and say, 'Why doesn't Rickover try this?' We have to examine and answer every one of these helpful suggestions, and so we spend half our time fielding foul balls. If they would only leave us alone, we could get the job done a hell of a lot faster and better."

There are some who see more than a natural desire not to be heckled in Rickover's wish to be left alone with his power, his massive budget and his vital project. "He is not just an ordinary empire builder," said an angry AEC official. "He's a complete autocrat." Rickover himself, speaking of his organization, says, "This is complete democracy." To which a member of the organization replies, "Democracy, hell. It's benevolent despotism—but I don't mind." Rickover is a driving, domineering man who can be pitiless in his treatment of intellectual inferiors. He has a remarkable knack for attracting attention and credit. Several of the engineers in his organization have done magnificent jobs for which the nation should be deeply grateful, but somehow no one has ever heard of those engineers.

But Rickover has warmth. When the young child of one of his prospective submarine commanders died not long ago, Rickover telephoned the father at an odd hour of the night to read the Bible to him. Rickover has a meticulous sense of honor: he makes a good deal of money with his extracurricular writings and speeches and gives the whole of it to charity, believing that what he has learned he has learned in the Navy and that the profit from it is public property. Rickover has the many other virtues that have enabled him to do the job he has done: intelligence, courage, tenacity, toughness, energy. He is a man to be admired and emulated—or so it would seem, despite the opinion of his enemies.

Today the plight of these enemies is almost pathetic. In their efforts to injure Rickover they have been reduced to the use of petty snubs such as the White House affair or the designation of ladies other than Mrs. Rickover to christen submarines. No doubt other snubs are in preparation, although at least a few of Rickover's enemies must have realized by now that this is not quite the way to get at him. Another snub will probably get him a fourth admiral's star; still more snubs may even put him in line for a fifth star. There has never been a six-star admiral in the Navy, but with a little resourcefulness Rickover's enemies could overcome that obstacle. Indeed, that may be part of their grand strategic design: get him so weighed down with the hardware of rank that someday he will ignominiously fall off a submarine.



RICKOVER AND ASSISTANTS meet to discuss an atomic ship project. They are (from left) Robert Panowff (seated), Howard Marks, Lieut. Commander Willis Barnes, Milton Shaw, Harry Mandil, Jack Grigg, Lieut. Commander David Leighton. All have been with him at least five years.



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THE NEWLYWEDS leave the church after ceremony, ready to depart for their honeymoon at a fishing camp in Maine. At left is the bride's 17-year-old sister Sally, who was maid of honor.

NEW FATHER-IN-LAW and bride stand on church lawn after wedding. She will teach school in Norwich, Vt. while her husband completes his senior year as a geology major at Dartmouth.



Sherm Adams' Day to Smile

Sherman Adams took a welcome break from Washington to enjoy a happy family occasion—the wedding of his tall, handsome, 22-year-old son, Samuel Sherman Adams, to a pretty brunette, Nancy Morris. The brusque, impersonal manner usually associated with the presidential assistant was nowhere in evidence that day in the manner of the bridegroom's beaming father.

The wedding was a quiet, simple double-ring ceremony performed in the First Parish Church (Congregational and Unitarian) of Lincoln, Mass. Though the bride's family

has lived for several years in Las Vegas, where her father is an engineer, she insisted on coming back to their old home to be married. She had met her husband on a ski run in Hanover, N.H. while she was a student at Colby Junior College and he was a Dartmouth freshman.

Among the wedding gifts was a silver tray from the Eisenhowers. Reporters who noticed the absence of the Adamses' good friend, Industrialist Bernard Goldfine, naturally asked questions. The bride's mother provided a straight simple answer. Mr. Goldfine had not been invited.



BRIDE AND FATHER, Engineer Robert Morris, at second altar—just in time for Epim wedding



IN RECEIVING LINE (from right) are mothers of bride and groom, new weds, three bridesmaids

THE ELDER ADAMISES, Sherman and Rachel, pose pensively in front as the couple leaves church





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RABBIT IN A RUSH DOWNTOWN

All but unnoticed by pedestrians and automobile drivers of Boise, Idaho, a desert jack rabbit hopped rapidly across the street one day, going on a green light but not keeping inside the painted pedestrian lanes. A man who had noticed the rabbit sitting on the corner of Eighth and Idaho told Jack

Robertson, an *Idaho Daily Statesman* photographer, about it. While deer occasionally wander into Boise from the foothills, rabbits are a rarity and Robertson hurried to the scene with his camera. He had barely arrived when the jack rabbit flashed across into an alley and fled for his home beyond the suburbs.



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AMANDA BLAKE AND JIM ARNESS TAKE AN L&M BREAK ON GUNSMOKE SET, HOLLYWOOD

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